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TABLES OF CASES

TO ILLUSTRATE

# THE HUNTERIAN LECTURES

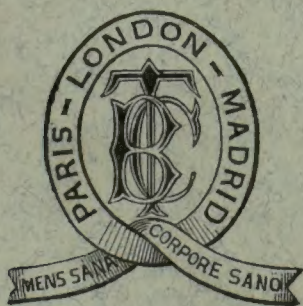
ON

## GASTRIC SURGERY

BY

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LONDON  
BAILLIÈRE, TINDALL AND COX  
8, HENRIETTA STREET, COVENT GARDEN

1906



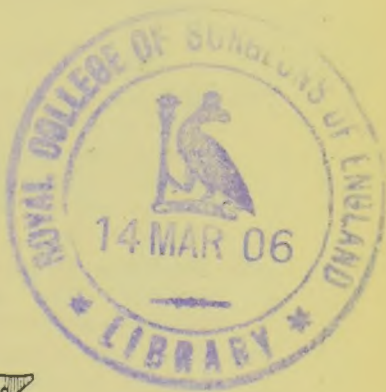
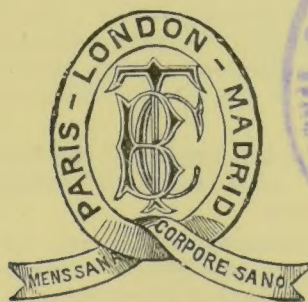


TABLES OF CASES  
TO ILLUSTRATE  
THE HUNTERIAN LECTURES  
ON  
GASTRIC SURGERY

TO BE DELIVERED BEFORE THE ROYAL COLLEGE OF SURGEONS  
ON FEBRUARY 19TH, 21ST, AND 23RD

BY  
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1906

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# SYLLABUS.

## LECTURE I.—MONDAY, FEBRUARY 19TH.

### Introduction.

**The Operation of Gastro-jejunostomy.**—Its immediate results—The complication of regurgitant vomiting—Its remote results—Peptic jejunal ulcer—The influence of the method of anastomosis and of the size of the anastomotic opening—The effect of gastro-jejunostomy on the metabolism of the human body—Conclusions.

## LECTURE II.—WEDNESDAY, FEBRUARY 21ST.

**The Operation of Gastro-jejunostomy** (*continued*).—The choice of operation—Comparison of the anterior and posterior operation—Pyloroplasty—Finney's operation.

**Gastric Ulcer.**—Its natural history and surgical treatment—The choice of operation, and the indications for its performance.

**The Complications of Gastric Ulcer.**—Gastrorrhagia—Its varieties, clinical and pathological, and its surgical treatment—The indications for operation—Hour-glass stomach—Its varieties—Its surgical treatment—The after-results of surgical treatment—The choice of operation.

## LECTURE III.—FRIDAY, FEBRUARY 23RD.

**The Complications of Gastric Ulcer** (*continued*).—Perforation—The site of perforation—The after-history of patients upon whom operation for perforation has been performed—Should gastro-jejunostomy be performed at the same time as suture of the ulcer?—Flushing the abdomen as a cause of shock.

**Infantile Hypertrophic Stenosis of the Pylorus.**—Its surgical treatment—The after-results of surgical treatment—The choice of operation.

**The Surgical Treatment of Cancer of the Stomach.**—Methods of operation—Choice of method—The results of total, sub-total, and partial gastrectomy.

### Conclusion.

*The Lectures will be illustrated with Tables of Cases and Specimens.*

TABLE I

SHOWING AFTER-RESULTS OF ONE HUNDRED AND SIXTEEN CASES OF GASTRO-JEJUNOSTOMY  
FOR NON-MALIGNANT DISEASE

No.	Sex and Age.	Operator.	Date of Opera- tion.	Disease.	Symptoms.	Method.	After-history.	Length of time since Operation.	Reference.
1	F., 37	Fritzsche	Feb., 1888	Pyloric stenosis	—	Anterior gastro- jejunostomy Senn's plates	Jan., 1906: Quite well, and free from gastric trouble	18 years	<i>Brit. Med. Jour.</i> , 1888, ii., p. 787
2	F., 38	Crawford Renton	Nov., 1890	Pyloric tumour	Pain and vomiting	Senn's plates	Sept., 1904: Quite well	14 years	<i>Brit. Med. Jour.</i> , 1892, ii., p. 64
3	M.	Crawford Renton	Feb., 1892	—	Dilated stomach	Senn's plates	Sept., 1904: Quite well	12 years	<i>Brit. Med. Jour.</i> , 1894, i., p. 124
4	M., 43	Sinclair (Belfast)	Oct., 1894	—	Vomiting	Senn's plates	Sept., 1904: Quite well; has gained 3½ stone; ardent cyclist	10 years	<i>Brit. Med. Jour.</i> , 1895, i., p. 188
5	M., 41	Allingham	1895	—	—	—	Sept., 1904: Alive and well	9 years	<i>Brit. Med. Jour.</i> , 1895, i., p. 367
6	F., 55	Lane	Nov., 1894	—	—	Murphy's button	Perfectly well 5 years, then died from internal strangulation; button still in stomach	—	<i>Brit. Med. Jour.</i> , 1897, i., p. 461
7	M.	C. J. Symonds	Dec., 1895	Pyloric stenosis	Dilated stomach, vomiting	Murphy's button	Sept., 1904: Button never seen again; quite well; some care in diet necessary	9 years	<i>Lancet</i> , 1889, i., p. 1356
8	M., 33	J. W. Taylor	Sept., 1896	Pyloric stenosis	Dilated stomach, vomiting	Posterior gastro- jejunostomy	Sept., 1904: Quite well; can eat anything	8 years	<i>Lancet</i> , 1897, ii., p. 1235



No.	Sex and Age.	Operator.	Date of Operation.	Disease.	Symptoms.	Method.	After-history.	Length of Time since Operation.	Reference.
9	M., 23	Mayo Robson	Oct. 21, 1897	Pyloric stenosis	Pain, vomiting,	Anterior gastro-jejunostomy (bone bobbins)	May, 1905: Attacks of pain at times, but has regained his normal weight	8 years	'Diseases of Stomach,' 1st ed., p. 284
10	F., 50	W. F. Haslam	July, 1896	Pyloric stenosis	—	Murphy's button	Sept., 1903: Quite well; button not passed	7 years	<i>Brit. Med. Jour.</i> , 1897, i., p. 21
11	M., 31	Mayo Robson	May 6, 1898	Tumour of pylorus	Pain, vomiting, dilated stomach	Anterior gastro-jejunostomy (bone bobbins)	1905: Well	7 years	'Diseases of Stomach,' 1st ed., p. 284
12	F.,	Mayo Robson	Sept. 4, 1898	Pyloric stenosis	Dilated stomach	Anterior gastro-jejunostomy (bone bobbins)	1905: Well	7 years	Do.
13	F., 20	Keetley	April, 1899	Gastric ulcer	Recurrence after suture of perforation	Anterior, (Murphy)	1905: In excellent health	6 years	<i>Lancet</i> , 1901, i., p. 1597
14	M., 28	Mayo Robson	Aug. 4, 1899	Pyloric tumour	Dilated stomach	Anterior gastro-jejunostomy (bone bobbins)	1905: Well and stout	6 years	'Diseases of Stomach,' 1901, p. 284
15	F., 50	W. G. Spencer	Nov., 1898	Simple stricture	—	Anterior suture	July, 1905: Quite well	6½ years	Westminster Hospital Reports, 1899, p. 149
16	F., 35	Newman	Jan., 1899	Pyloric stenosis	—	Murphy's button	Sept., 1904: Perfect health; button passed 23rd day	5½ years	<i>Glasg. Med. Jour.</i> , 1899, li., p. 429

17	M., 34	Mayo Robson	Nov. 9, 1899	Tumour of pylorus	Dilated stomach	Anterior gastro-jejunostomy Murphy's button	May, 1905: 'I have enjoyed very good health ever since the operation.'	5½ years	'Diseases of Stomach,' 1901, p. 285
18	F., 28	Jones Greer	Oct., 1899	Gastric ulcer	Hæmatemesis 10 years	Murphy's button	Button passed 17th day. Oct., 1904: Takes ordinary food; no return of symptoms	5 years	<i>Brit. Med. Jour.</i> , 1900, i., p. 574
19	M., 35	Moynihan	Feb., 1900	Pyloric contraction	Chronic ulceration, hyperchlorhydria	Gastro-jejunostomy (Laplace's forceps)	March, 1905: Perfectly satisfactory	5 years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 534
20	M., 49	Moynihan	Aug. 1, 1900	Hard cicatricial ring at pylorus	Epigastric pain and vomiting	Posterior gastro-jejunostomy by simple suture	April, 1905: 'Never any stomach trouble now.'	5 years	<i>Loc. cit.</i>
21	M., 32	Moynihan	June, 1900	Dense ring at pylorus	Vomiting and dilated stomach	Posterior gastro-jejunostomy	June, 1905: 'Never missed a day's work since operation.'	5 years	<i>Loc. cit.</i>
22	F., 42	A. E. Barker	Feb., 1900	Pyloric stenosis	Vomiting, etc.	Posterior gastro-jejunostomy; suture only	Aug., 1904: 'Never a day's illness since.'	4½ years	<i>Brit. Med. Jour.</i> , Feb. 2, 1901
23	M., 52	Moynihan	June 6, 1900	Supposed malignant mass at the pylorus	Acute pain and vomiting	Anterior gastro-jejunostomy	Nov., 1904: Quite well; has regained his normal weight (letter from Dr. Clarke)	4½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 534
24	F., 52	Moynihan	June 15, 1901	Pyloric tumour; many adhesions	Vomiting (hæmatemesis), pain, and dilated stomach	Posterior gastro-jejunostomy	Nov., 1904: Enjoying very fair health; able to perform all home duties (letter)	4½ years	Do.



No.	Sex and Age.	Operator.	Date of Operation.	Disease.	Symptoms.	Method.	After-history.	Length of Time since Operation.	Reference.
25	F., 31	Moynihan	Feb. 19, 1901	Dilated stomach; many tough adhesions	Dilated stomach; copious vomiting and pain	Gastro-jejunostomy	Nov., 1904: Is very well, and doing all her own house-work (Dr. Waugh)	4½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 534
26	F., 34	A. R. Anderson	Feb. 15, 1901	Pyloric stenosis	Vomiting, dilated stomach	Posterior gastro-jejunostomy	Nov., 1905: Well	4½ years	<i>Lancet</i> , 1905, ii., p. 944, and private letter
27	M., 30	Jones Greer	Sept., 1900	Pyloric stenosis	Dilated stomach	Murphy's button	Oct., 1904: Takes ordinary food; no gastric trouble	4 years	Unpublished
28	M., 43	Basil Hall	Nov., 1901	Duodenal ulcer	Vomiting, dilated stomach	—	Some pain after operation, and subsequently laparotomy performed, and omental cord, which was compressing jejunum, was divided. Nov., 1905: Now well, but remains thin	4 years	<i>Brit. Med. Jour.</i> , 1903, ii., p. 895, and private communication
29	F., 41	Moynihan	Jan., 1900	Thickening at the pylorus	Pain and frequent vomiting	Gastro-jejunostomy with Laplace's forceps	Nov., 1904: In first-rate health	4 years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 534
30	F.,	Keetley	Sept., 1901	Gastric ulcer	Hæmatemesis	Anterior	1905: Very well	4 years	<i>Lancet</i> , 1902, i., p. 955, and private letter
31	M., 47	Stanley Boyd	Dec., 1900	Pyloric stenosis	—	Anterior	Jan., 1905: In regular work at Woolwich Arsenal. Not quite so well last 9 months, but can eat and digest anything	4 years	<i>Brit. Med. Jour.</i> , 1901, i., p. 400.



32	F., 45	A. R. Anderson	Oct. 18, 1901	Pyloric stenosis	Vomiting and hæmatemesis	Posterior gastro- jejunostomy	Gained weight rapidly. Nov., 1905: Well	4 years	<i>Lancet</i> , 1905, ii., p. 944, and private letter
33	F., 28	A. R. Anderson	Jan. 16, 1902	Pyloric stenosis	Vomiting and dilated stomach	Posterior	Nov., 1905: Well	4 years	Do.
34	M.,	Spencer	Nov., 1899	Perforated gastric ulcer	—	Anterior gastro- jejunostomy	Died of Bright's disease 3½ years after opera- tion. Until death able to eat ordinary hotel diet without indiges- tion	3½ years	Unpublished
35	F., 22	Moynihan	Feb. 12, 1901	Ulcer on cardiac side of pylorus	Indigestion, pain, frequent vomiting (first time with hæmatemesis)	Posterior gastro- jejunostomy by suture	Nov., 1904: In perfect health (letter from Dr. Milne)	3½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 540
36	M.,	A. E. Barker	July, 1901	Duodenal ulcer	Pain, melæna	Retro-colic	Nov., 1904: Quite well	3½ years	<i>Brit. Med. Jour.</i> , 1902, Feb. 8.
37	M., 60	Moynihan	Feb. 22, 1901	Stomach a little dilated; ulcer on the anterior wall	Severe and constant pain in epigastrium	Posterior gastro- jejunostomy	Nov., 1904: Very well (letter from Dr. Stans- field)	3½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 534
38	F., 27	Moynihan	Feb. 20, 1901	Ulcer, near pylorus	Pain, vomiting	Posterior	Nov., 1904: 'Is very well, but has never been robust since her operation, but neither was she before' (Dr. Waugh)	3½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 538
39	F., 56	Moynihan	Feb. 5 1901	Posterior previously per- formed by Murphy's button; opening almost completely closed	Pain, copious vomiting	Posterior	Nov., 1904: Quite well; very pleased with re- sult of operation (letter from Dr. Hick)	3½ years	Do.

No.	Sex and Age.	Operator.	Date of Operation.	Disease.	Symptoms.	Method.	After-history.	Length of Time since Operation.	Reference.
40	F., 44	Moynihan	Feb. 11, 1901	Induration on posterior surface of pylorus	Pain, vomiting, hæmatemesis once	Posterior	Nov., 1904: 'Very successful; some care necessary in diet' (Dr. Clements)	3½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 538
41	M., 30	Moynihan	March 19, 1901	Ulcer of duodenum; scar of gastric ulcer	Pain in epigastrium, vomiting, hæmatemesis once	Posterior	Nov., 1904: Remains quite well (letter from Dr. Anning)	3½ years	Do.
42	F., 48	Moynihan	May, 1901	Thickening at pylorus; wide ulceration	Epigastric tenderness; hæmatemesis three times	Posterior	Nov., 1904: Quite well (letter from Dr. Mason)	3½ years	Do.
43	M., 38	Mayo Robson	Jan., 1900	Gastric ulcer	Hæmatemesis	Anterior (bone bobbin)	Well for two years. May, 1903: Roux's operation for peptic jejunal ulcer. Good recovery, but died in 1905 of some abdominal ailment	5 years	'Diseases of Stomach,' 1901, p. 285
44	F., 37	Moynihan	June 20, 1901	Dilated stomach; 3 scars; adhesions	Indigestion, vomiting, hæmatemesis	Posterior	Dec., 1904: 'Quite well. Occasionally slight bilious attack, apparently due to constipation' (Dr. Hausman)	3½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 542
45	M., 50	A. B. Mitchell	June, 1902	Pyloric stenosis	—	Posterior	Nov., 1905: In perfect health	3½ years	<i>Lancet</i> , 1903, ii., p. 588, and private letter



46	F., 36	A. R. Anderson	May 14, 1902	Pyloric stenosis	Vomiting, dilated stomach	Posterior	Nov., 1905: In excellent health	3½ years	<i>Lancet</i> , 1905, ii., p. 944, and private letter
47	M., 51	H. J. Paterson	Nov., 1902	Pyloric stenosis	Severe gastric tetany	Anterior	Jan., 1906: Never any gastric or other trouble since	3½ years	Unpublished Dr. Ferwick's case
48	F., 42	A. R. Anderson	Aug. 8, 1902	Chronic ulcer	Vomiting, gastric dilatation	Posterior	Nov., 1905: Patient keeps well	3½ years	<i>Loc. cit.</i>
49	F., 47	H. J. Paterson	Sept., 1902	Pyloric stenosis	Vomiting, dilated stomach	Anterior	Jan., 1906: Perfect health ever since operation	3½ years	Unpublished
50	F., 31	Leonard Gamgee	March, 1900	Pyloric stenosis	—	Murphy's button	Nov., 1903: Quite well; button not passed	3 years	<i>Brit. Med. Jour.</i> , 1902, i., p. 21
51	F., 35	Jones Greer	March, 1901	Chronic dyspepsia	Constant pain	Murphy's button	Oct., 1904: Quite well; no recurrence of symptoms; takes some care with diet	3 years	Unpublished
52	F., 29	Jones Greer	June, 1901	Hyperchlorhydria	Pain, vomiting	Murphy's button	Oct., 1904: No recurrence of symptoms; some care taken as regards diet	3 years	Unpublished
53	M., 73	Atkins	July, 1901	Pyloric stenosis	Ailing 9 years; irregular vomiting	Murphy's button	Died July, 1904, from bronchitis; quite cured of gastric trouble	3 years	<i>Brit. Med. Jour.</i> , 1905, ii., p. 789
54	F., 42	Miles	Aug., 1901	Severe hæmatemesis	—	Posterior	Sept., 1904: Quite well; no recurrence of hæmatemesis	3 years	<i>Brit. Med. Jour.</i> , Jan. 4, 1902
55	M., 61	Deansley	July, 1901	Dilated stomach	Dilated stomach	Anterior	Sept., 1904: Has gained 3 stone 4 pounds; occasional indigestion; good health	3 years	<i>Brit. Med. Jour.</i> , 1902, i., p. 1148
56	M., 45	Deansley	July, 1901	Pyloric ulcer	Dilated stomach	Anterior	Double pneumonia 1903. Sept. 1904: Quite well	3 years	Do.

## Gastric Surgery

No.	Sex and Age.	Operator.	Date of Operation.	Disease.	Symptoms.	Method.	After-history.	Length of Time since Operation.	Reference.
57	F., 20	Basil Hall	Oct., 1902	Gastric ulcer	Pain, vomiting	Supra-colic gastro-jejunostomy	Nov., 1905: In excellent health; has gained 25 pounds	3 years	<i>Brit. Med. Jour.</i> , 1903, ii., p. 895, and private communication
58	F., 39	Basil Hall	Oct., 1902	Gastric ulcer	Pain, vomiting	Supra-colic	Nov., 1905: No bad symptoms since operation; in excellent health; has gained 2 stone	3 years	Do.
59	F., 48	A. E. Barker	July, 1901	—	Pain, epigastric tumour	Retro-colic	1904: 'In splendid condition; gained over 2 stone'	3 years	<i>Brit. Med. Jour.</i> , Feb. 8, 1902
60	M., 55	Moynihan	Jan., 1900	Dilated stomach, ulcer, cicatricial contraction and adhesions	Epigastric pain and vomiting	Laplace's forceps	Second operation in March, 1902; opening found practically closed. Second anastomosis made with Murphy's button. June 1905: 'Very well indeed; can digest any food' (Dr. Bailey)	3 years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 534
61	F., 28	Moynihan	Aug., 1901	Ulcer, large flabby stomach	Pain, vomiting, stomach dilated and proptosed	Posterior	Nov., 1904: 'Very well indeed, but at times attacks of vomiting, the vomit containing bile' (letter from Dr. Robinson)	3 years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 542



62	M., 40	Moynihan	Nov. 2, 1901	Enormous stomach; several ulcers	Pain and vomiting, tetany	Posterior	Nov., 1904: 'Very well on the whole; occasional attacks of dyspepsia; size of stomach has considerably diminished' (letter from Dr. Anning)	3 years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 543
63	F., 19	Moynihan	Dec., 1901	Large indurated scar on posterior surface; the posterior surface of the stomach very adherent	Dilated stomach, pain and vomiting, hæmatemesis	Posterior	Dec., 1904: Quite well	3 years	Do.
64	M., 37	Walsham	June, 1902 Jan., 1903	Pyloric stenosis	Vomiting, etc.	Pyloroplasty, gastro-jejunostomy (Murphy)	Jan., 1906: Better for 2 months after second operation, but now vomiting about every third day; can eat most kinds of food	3 years	Unpublished
65	F., 26	Moynihan	Jan., 1902	Gastric ulcer	Hæmatemesis once, and melæna	Posterior	Dec., 1904: Quite well; no trouble in any way	3 years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 544
66	M., 43	Moynihan	Feb. 3, 1902	Much thickening at the pylorus, forming a tumour	Vomiting, hæmatemesis, and melæna	Posterior	1905: 'Perfectly well since operation' (Dr. Ellis)	3 years	Do.
67	F., 24	Moynihan	July 19, 1902	Near the pylorus were two scars of ulcers	Vomiting daily, hæmatemesis	Posterior	June, 1905: Quite well	3 years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 548
68	F., 30	A. B. Mitchell	Jan., 1903	Duodenal ulcer	—	Posterior	Nov. 23, 1905: In excellent health	3 years	<i>Lancet</i> , 1903, ii., p. 588, and private letter
69	M., 48	A. R. Anderson	Nov. 11, 1902	Pyloric stenosis	Vomiting, dilated stomach	Posterior	Nov., 1905: Keeps well	3 years	<i>Lancet</i> , 1905, ii., p. 944, and private letter

No.	Sex and Age.	Operator.	Date of Operation.	Disease.	Symptoms.	Method.	After-history.	Length of Time since Operation.	Reference.
70	F., 22	Basil Hall	Feb., 1903	Gastric ulcer	Vomiting	Supra-colic	Nov., 1905 : Quite well	2½ years	<i>Brit. Med. Jour.</i> , 1903, ii., p. 895, and private communication
71	F., 25	Basil Hall	March, 1903	Gastric ulcer	Frequent vomiting	Supra-colic	Nov., 1905 : Quite well	2½ years	Do.
72	M., 23	Leonard Gamgee	May, 1902	Pyloric stenosis	Pain, vomiting	Anterior (Murphy)	Aug., 1902 : Gained 10 pounds; some pain; occasional vomiting	2½ years	Unpublished
73	M., 44	A. E. Barker	Jan., 1902	Gastric ulcer	—	—	Nov., 1904 : 'Entirely satisfactory; takes no precautions about diet.	2½ years	Private letter
74	M., 21	Atkins	Feb. 3, 1903	Old gastric ulcer; dilated stomach	Pain and gastric distension	—	July, 1905 : Continues to improve; no pain or hæmatemesis	2½ years	<i>Brit. Med. Jour.</i> , 1905, ii., p. 789
75	M., 54	Atkins	March 3, 1903	—	—	Posterior	July, 1905 : 'Feels fairly well when careful of diet. Not so well as I could wish, but very much better than before operation'	2½ years	Do.
76	F., 34	Moynihan	March 17, 1902	Pyloric antrum, covered with cicatrices	Vomiting	Posterior	Dec., 1904 : 'Much better since the operation, but has had gastric trouble since, but not to the extent that she had before; but still the cure is not an absolute one by any means' (Dr. Hogarth)	2½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi, p. 544



77	F., 25	Moynihan	April 17, 1902	Ulcer near pylorus	—	Posterior	Nov., 1904: 'Most satisfactory' (letter from Dr. Sproule)	2½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 545
78	M., 38	Moynihan	April 2, 1902	Scar of a large chronic ulcer	Pain and vomiting	Posterior	Nov., 1904: 'A perfect case' (letter from Dr. Halliday)	2½ years	Do.
79	F., 29	Moynihan	April 17, 1902	Ulcer on anterior wall near pylorus	Intolerable pain and vomiting	Posterior	Dec., 1904: 'Taking food well, but occasional attack of vomiting of bile' (Dr. Smith)	2½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 546
80	F., 37	Moynihan	June 12, 1902	Adhesions at the pylorus and duodenum	Pain, vomiting, melæna	Posterior	Dec., 1904: Quite well	2½ years	Do.
81	F., 27	Moynihan	June, 1902	Dense adhesions on posterior wall of stomach	Constant pain and vomiting	Posterior	Dec., 1904: Has had several relapses*	2½ years	Do.
82	M., 47	Moynihan	July 2, 1902	Scar on posterior surface	Pain, vomiting	Posterior	Dec. 30, 1904: Occasional indigestion; otherwise well	2½ years	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 547
83	M., 30	Moynihan	July 19, 1902	Dense scarring at and near pylorus	Hæmatemesis, vomiting	Posterior	Dec., 1904: 'Result quite perfect' (Dr. Woodyatt)	2½ years	Do.
84	M., 50	D'Arcy Power	March, 1903	Thickening of pylorus	Vomiting; swallowed nitric acid	Posterior, opening = 1 inch	Nov., 1905: Quite well	2½ years	St. Bartholomew's Hospital Reports, xxxix., p. 26
85	F., 35	Moynihan	July 21, 1902	Adhesions round the pyloric end of stomach	Vomiting and loss of weight, dilated stomach	Posterior	Dec., 1904: Quite well; never a day's trouble since operation	2½ years	<i>Loc. cit.</i> , p. 548
86	M., 19	Moynihan	Aug. 25, 1902	Many and thick adhesions	Vomiting, large splashy stomach	Posterior	Dec., 1904: In excellent health	2½ years	Do., p. 551
87	F., 45	H. J. Paterson	Aug., 1903	Gastric ulcer	Vomiting, pain	Anterior	Jan., 1906: Never gastric trouble since operation	2½ years	Unpublished

\* According to a later report, this patient has improved.

No.	Sex and Age.	Operator.	Date of Operation.	Disease.	Symptoms.	Method.	After-history.	Length of Time since Operation.	Reference.
88	M., 32	A. R. Anderson	April 3, 1903	Chronic ulcer	Vomiting, hæmatemesis	Posterior	Nov., 1905 : In good health	2½ years	<i>Lancet</i> , 1905, ii., p. 944, and private letter
89	F., 15	Keetley	Jan. 1, 1901	Gastric ulcer	Pain, vomiting	Anterior (Murphy)	Aug., 1902 : Relapse, apparently 'cured' by lavage; quite well in Dec., 1902	—	<i>Lancet</i> , 1902, i., p. 955, and private letter
90	F., 26	A. R. Anderson	May 15, 1903	Chronic ulcer	Vomiting, hæmatemesis (slight)	(?)	Nov., 1905 : Patient keeps well	2½ years	<i>Lancet</i> , 1905, ii., p. 944, and private letter
91	M., 40	Walsham	May, 1903	Pyloric stenosis	Vomiting, dilated stomach	Anterior, opening = $\frac{3}{4}$ inch	Dec., 1905 : Gradually getting worse; vomiting more frequent than before operation	2½ years	Unpublished
92	M., 33	Basil Hall	April, 1903	Large ulcer, enlarged glands	Vomiting	Supra-colic	Nov., 1905 : Well	2½ years	<i>Brit. Med. Jour.</i> , 1903, ii., 895, and private communication
93	F., 30	D'Arcy Power	May, 1903	Gastric ulcer	Pain, vomiting	Posterior	Nov., 1905 : Quite well, but some care in diet necessary	2½ years	St. Bartholomew's Hospital Reports, xxxix., p. 27
94	F., 52	Basil Hall	May, 1903	Ring-like structure 2 inches from pylorus	Vomiting	Supra-colic	Nov., 1905 : Quite well	2½ years	<i>Loc. cit.</i>
95	M., 32	Leonard Gamgee	March, 1902	Gastric ulcer	Pain, vomiting	Anterior (Murphy)	Button passed one year. March, 1904 : Quite well; working as a miner	2 years	Unpublished
96	F., 35	Deansley	April, 1902	Gastric ulcer	—	Anterior	Sept., 1904 : Health and digestion good	2 years	<i>Brit. Med. Jour.</i> , 1903, i., p. 1086



97	F., 70	Deansley	June, 1902	Pyloric stenosis	—	Anterior	Sept., 1904: Health good; no indigestion	2 years	Unpublished
98	F., 22	Leonard Gangee	June, 1902	Gastric ulcer	Pain, hæmatemesis, vomiting	Anterior (Murphy)	Button passed 13 months. June, 1904: Perfectly well	2 years	Do.
99	M., 37	Deansley	Dec., 1902	Chronic ulcer	—	Anterior	Dec., 1904: Fairly good health; digestion good	2 years	Do.
100	F.	Morton	1899	Gastric ulcer	Pain, vomiting	—	Quite well 18 months, then some return of symptoms	—	Do.
101	—	Basil Hall	May, 1901	—	Weight, 8 stone	—	1902: Weight, 11 stone, but died suddenly in June, 1903, while drunk. Post-mortem: Perforated ulcer of jejunum 6 inches below anastomosis	Died 1 year later.	<i>Brit. Med. Jour.</i> , 1903, ii., 845, and private letter
102	M., 45	Spencer	June, 1901	Gastric ulcer	Hæmatemesis	Anterior	Aug., 1903: Quite well	2 years	—
103	M., 39	Basil Hall	Aug., 1901	Greatly dilated stomach	Pain, vomiting	Supra-colic	July, 1903: Quite well; not heard of since	2 years	<i>Brit. Med. Jour.</i> , 1903, ii., p. 895, and private communication
104	M., 51	Rushton Parker	Dec., 1901	Pyloric stenosis	Vomiting, pain	Anterior; pyloroplasty performed previously	Died suddenly Aug., 1904; perforated jejunal ulcer; until death quite well, and eating anything	Died 2½ years later	<i>Brit. Med. Jour.</i> , 1902, ii., p. 1704.
105	F., 19	Moynihan	Nov. 30, 1901	Very dilated stomach; scar of large indurated ulcer about 1½ inches from pylorus	Severe pain after food; copious vomiting every week or 10 days; dilated stomach	Posterior	Dec., 1904: Quite well	3 years	<i>R. Med. Chir. Trans.</i> , LXXXVI., p. 543

No.	Sex and Age.	Operator.	Date of Operation.	Disease.	Symptoms.	Method.	After-history.	Length of Time since Operation.	Reference.
106	F., 18	A. R. Anderson	Oct., 1902	Chronic ulcer	Vomiting, hæmatemesis	Posterior	Nov., 1904: Quite well	2 years	<i>Lancet</i> , 1905, ii., p. 944, and private communication Do.
107	M., 34	A. R. Anderson	Oct. 16, 1903	Chronic ulcer	Vomiting, hæmatemesis	Posterior	Nov., 1905: Patient quite well	2 years	Do.
108	F., 27	A. R. Anderson	Oct. 23, 1903	Pyloric stenosis	Vomiting, dilated stomach	Posterior	Nov., 1905: Quite well	2 years	Do.
109	M., 36	H. J. Paterson	Jan., 1904	Gastric ulcer	Vomiting, hæmatemesis, melæna	Anterior	Jan., 1906: In good health; can eat and digest anything	2 years	Unpublished
110*	M., 57	Fritzsche	Nov., 1887	Supposed cancer	—	Anterior	Jan., 1906: Quite well; has gained 48 kilograms	19 years	<i>Brit. Med. Jour.</i> , 1888, ii., p. 787, and private letter
111	F., 56	Jessett	1889	Supposed cancer	—	Senn's plates	Died of apoplexy in 1900; tumour had disappeared	11 years	<i>Lancet</i> , 1901, i., p. 1005
112	M., 68	W. J. Walsham	May, 1900	Supposed cancer	—	Murphy's button	Sept., 1904: Well ever since; some pain at times	5 years	St. Bartholomew's Hospital Reports, and personal interview
113	F., 52	Spencer	Feb., 1899	Supposed cancer	—	Anterior	July, 1904: Quite well; able to eat ordinary food	5 years	Unpublished
114	M., 69	D'Arcy Power	Aug., 1902	Supposed cancer	—	McGraw's elastic ligature	Dec., 1905: Quite well ever since (letter from patient)	3½ years	St. Bartholomew's Hospital Reports, xxxix., p. 24
115	M., 54	—	Sept., 1903	Supposed cancer	—	Posterior, opening = ¾ inch	Jan., 1906: 'Occasional vomiting; can take milk foods only'	2½ years	Unpublished
116	F., 39	H. J. Paterson	Jan., 1902	Supposed cancer	—	Anterior	Dec., 1905: Quite well	4 years	Unpublished

\* Nos. 110 to 116 are cases in which operation was performed for *supposed* malignant disease.



TABLE II

## CASES ILLUSTRATING CONTRACTION OR CLOSURE OF THE ANASTOMOTIC OPENING AFTER GASTRO-JEJUNOSTOMY

<i>Observer.</i>	<i>Method.</i>	<i>Time after Operation.</i>	<i>Condition found.</i>	<i>Reference.</i>
G. H. Hume	Senn's plates	2 months	Opening only admitted forefinger	<i>Brit. Med. Jour.</i> , 1893, i., p. 847
Beatson	Senn's plates	2 days	Opening only admitted forefinger	<i>Lancet</i> , 1890, ii., p. 761
Beatson	Senn's plates	1 month	Opening only admitted forefinger	Do.
Czerny	Murphy's button	—	Opening diminished from 5 cm. to 8 mm.	—
W. J. Mayo	Murphy's button	13 months	Opening=cedar pencil	<i>Annals of Surgery</i> , 1902, ii., p. 231
W. J. Mayo	Murphy's button	20 days	Opening=cedar pencil	Do.
W. J. Mayo	Murphy's button	1 month	Opening=tip of little finger	Do.
W. J. Mayo	Murphy's button	16 months	Opening nearly obliterated	Do.
Stansfield	Senn's plates	Post-mortem, 4 months	No trace of opening	Spec. in Liv. Univ. Coll. Mus.
Author	Single row serous sutures	2nd operation 5 months later (author)	No trace of opening	Unpublished
Larkin	Senn's plates	Post-mortem, 5 months	Opening closed	<i>Brit. Med. Jour.</i> , 1893, i., p. 847
Author	Single layer Lembert's sutures	2nd operation 2 years later	Opening closed	Unpublished
Moynihan	Laplace's forceps	2nd operation 3 months later	Opening practically closed	<i>R. Med. Chir. Trans.</i> , lxxxvi., p. 524
Brown	Senn's plates	2nd operation 2 weeks later	Opening closed by membrane	<i>Lancet</i> , July 7, 1900
Moynihan	Murphy's button	2nd operation 3 years later	Opening completely closed	<i>Loc. cit.</i>
Author	Murphy's button	post-mortem 3 months later	No trace of opening	Unpublished
Author	Murphy's button	2nd operation 5 months later	Opening quite closed	—
C. Symonds	Suture; no removal of mucous membrane	(?)	Opening closed	Discussion Med. Soc. Lond.
Oppenshaw	Suture; no removal of mucous membrane	(?)	Opening closed	Do.

TABLE III  
ANALYSIS OF NINETEEN CASES OF PEPTIC JEJUNAL ULCER \*

No.	Operation: Anterior or Posterior.	Gastric Acidity.	Operation for	No. of Cases.	No. of Ulcers.	Time after Operation.	Result.	Reference.
1	Posterior	Normal	Dilated stomach	1	1	1 year	Perforation, peritonitis, death	Braun, <i>Die Verhandl. d. Deutsche Gesellschaft. f. Chir.</i>
2-4	All anterior	All cases *	Benign stenosis of pylorus	3	—	—	1st case: perforation and death; 2nd and 3rd cases: abscess, operation, cure	Hahn, Do., Bd. xxviii., 1899, S. 74; and Bd. xxxi., 1902, S. 114
5-7	All anterior	2 cases * 1 case normal	1st and 2nd cases, pyloric stenosis; 3rd case, ulcer of stomach	3	1st and 2nd cases, 1 each; 3rd case, ulcer recurred	1st case, 4 months; 2nd and 3rd cases: (?)	1st and 2nd cases, perforation, abscess, operation, cure; 3rd case, recurrence of ulcer, jejunostomy, death	Kausch, Do., Bd. xxviii., 1899, S. 74; Bd. xxix., 1900, S. 140; and Bd. xxxi., 1902, S. 115
8	Anterior	*	Gastric ulcer	1	1	3 years	Perforation, peritonitis, death	Körte, Do., Bd. xxix., 1900, S. 137
9	Posterior	*	Pyloric stenosis	1	4	10 days	Perforation, death	Steinthal, Do., Bd. xxix., 1900, S. 139
10	(?)	*	Pyloric stenosis	1	1	6 months	Perforation, abscess, operation, fistula	Hadra, Do., Bd. xxix., 1900, S. 152



11	Anterior	*	Functional pyloric stenosis	1	1	3 to 4 months	Perforation, abscess, operation, cure	Neumann, <i>Deutsche Zeit. f. Chir.</i> , 1901
12	Y of Roux		Gastric ulcer	1	1	12 months	Perforation, abscess, operation, cure	Kocher, <i>Die Verhandl. d. Deutsche Gesellschaft. f. Chir.</i>
13	Anterior	Normal	Pyloric stenosis with ulcer	1	1	3 to 4 months	Perforation, adhesions operation, cure	Heidenhain, <i>Do.</i> , Bd. xxxi., 1902, S. 108
14, 15	Anterior	Both*	Pyloric stenosis	2	1 each	1st case, 4 months. 2nd case, 13 months	1st case, perforation, death; 2nd case, perforation, suture, cure	Goepel, <i>Do.</i> , Bd. xxxi., 1902, S. 108
16	(?)		Pyloric stenosis	1	1	4 years	Ulcer resected, and Roux's operation performed; recovery	Quénu, <i>Bull. de Mèd. de la Soc. de Chir. de Paris</i> , No. 7, 1902.
17	Anterior		Gastric hæmorrhage	1	—	3 years	Resection of ulcerated jejunum, and Roux's operation; recovery	Mayo Robson, <i>Tr. R. M. Chir. Soc.</i> , 1904, p. 339
18	Anterior and pyloroplasty		Pyloric stenosis	1	—	3 years	Died suddenly; perforated ulcer of jejunum. (See Table I., Case No. 104.)	Rushton Parker, privately communicated
19	Anterior		Dilated stomach	1	—	2 years	Died suddenly while drunk; perforated ulcer of jejunum 6 inches below anastomosis. (See Table I., Case No. 101.)	Basil Hall, privately communicated

\* The first fifteen cases are taken from M. Mayo Robson's paper.

TABLE IV  
SHOWING RESULTS OF TWENTY-TWO CASES OF PYLOROPLASTY

No.	Sex and Age.	Operator.	Date of Operation.	After-result.	Reference.
1	F.	Bidwell	1900	1 year later recurrence; gastro-jejunostomy performed; pylorus found to admit only a probe	<i>Brit. Med. Jour.</i> , 1901, ii., 1142
2	F., 38	Rushton Parker	Aug., 1895	Return of symptoms 1899; pyloroplasty repeated. Jan., 1900: Some indigestion and constipation. Sept., 1904: In best of health	<i>Brit. Med. Jour.</i> , 1895, ii., 1492, and private letter
3	M., 52	Rushton Parker	May, 1897	1902: Much dyspepsia and flatulence (letter). 1900: In fairly good health (letter)	Do.
4	M., 21	Rushton Parker	Jan., 1899	Oct., 1902: Quite well	Do.
5	M., 46	Rushton Parker	Sept., 1899	Gastro-enterostomy necessary a year later	Do.
6	F., 38	Paterson	May, 1901	Only partial relief; still some vomiting; died from other causes later	Unpublished
7	M., 34	Allingham	1895	2 years later symptoms recurred	<i>Brit. Med. Jour.</i> , 1895, i., p. 367, and private letter
8	F., 48	R. Morison	Oct., 1894	1899: In perfect health	<i>Lancet</i> , 1898, i., p. 561, and private letter
9	M.,	R. Morison	Jan., 1896	Sept., 1904: Quite well ever since	Do.
10	M., 25	R. Morison	Oct., 1896	Sept., 1904: Can take ordinary food	Do.



11	M., 51	Rushton Parker	Dec., 1901	Died Aug., 1904; pylorus barely admitted tip of scissors. (See Case 104, Table I.)	<i>Brit. Med. Jour.</i> , Nov. 29, 1902, and private letter
12	M., 39	(?)	? 1898	Symptoms recurred within fifteen months; gastro-jejunostomy subsequently performed by Basil Hall. (See Case 103, Table IV.)	<i>Brit. Med. Jour.</i> , 1903, ii, p. 895
13	F., 32	Mayo Robson	Dec., 1895	Relief at first; recurrence later. Oct., 1898: Gastro-enterostomy. Quite well in 1903	'Diseases of Stomach,' p. 192
14	F., 29	Mayo Robson	Nov., 1895	Relapse in 1898; gastro-enterostomy. Quite well in 1900	<i>Loc. cit.</i>
15	M., 52	Mayo Robson	Jan., 1897	Well in 1901; recurrence of symptoms later, and gastro-enterostomy performed	<i>Loc. cit.</i>
16	F., 46	Mayo Robson	March, 1897	Recurrence of symptoms later; died at seaside of gastric tetany	<i>Loc. cit.</i> , and private letter
17	M., 39	Mayo Robson	May, 1897	Oct., 1904: Quite well ever since; takes care in diet; works hard	Do.
18	M., 37	Walsham	June, 1902	Relapsed; second operation, 1903	Letter from patient
19	F., 44	Mayo Robson	Sept., 1897	Dec., 1899: Very well	—
20	F., 44	W. G. Spencer	March, 1899	Pyloroplasty and gastroplication. 1903: Quite well; no gastric trouble	Privately communicated
21	F., 35	W. G. Spencer	June, 1898	Pyloroplasty and gastroplication. 1900: Gained 2 stone; no gastric trouble	<i>Med. Press and Circ.</i> , Nov. 2, 1898, and private letter
22	M., 42	W. G. Spencer	Dec., 1898	Pyloroplasty and gastroplication. 1900: Takes ordinary diet without indigestion	Privately communicated

TABLE V  
SHOWING RESULTS OF TWELVE CASES OF HÆMATEMESIS TREATED BY EXCISION OR LIGATURE  
OF BLEEDING POINT

No.	Initials.	Sex and Age.	Date of Operation.	Operator.	Condition found.	After-history.	Reference.
1	E. W.	F., 29	Dec., 1902	Butlin	Numerous tiny bleeding points; nine points ligatured	Oct., 1904: Quite well ever since; no further bleeding	<i>Brit. Med. Jour.</i> , 1903, ii., p. 987, and private inquiry
2	A. H.	F., 42	Nov., 1899	Mansell Moullin	Numerous erosive ulcers on posterior wall ligatured	Free from pain; has been sick twice since operation; on each occasion brought up a little blood; general condition much better	<i>Brit. Med. Jour.</i> , 1904, i., p. 420
3	A. A.	F., 34	March, 1900	Mansell Moullin	One erosive ulcer on posterior wall ligatured	No pain, bleeding, or sickness since operation	<i>Loc. cit.</i>
4	H. A.	F., 20	April, 1902	Mansell Moullin	One small erosion ligatured	Relieved for some months; vomiting returned and continued	<i>Loc. cit.</i>
5	S. P.	F., 26	May, 1902	Mansell Moullin	Chronic ulcer excised	Much better; no pain or sickness since	<i>Loc. cit.</i>
6	C. A.	F., 30	May, 1902	Mansell Moullin	One erosive ulcer ligatured	No more hæmatemesis; occasional indigestion, but not severe	<i>Loc. cit.</i>
7	H. M.	F., 27	July, 1902	Mansell Moullin	Chronic ulcer ligatured <i>en masse</i>	Very much better; no pain or vomiting since	<i>Loc. cit.</i>
8	M. C.	F., 25	July, 1902	Mansell Moullin	Numerous erosive ulcers ligatured	Attacks of hæmatemesis as frequently as before operation	<i>Loc. cit.</i>
9	J. C.	M., 42	May, 1900	Mansell Moullin	Chronic ulcer ligatured <i>en masse</i>	No pain or hæmatemesis; two attacks of vomiting following exposure to great cold	<i>Loc. cit.</i>
10	—	F., 25	Feb., 1904	—	Numerous bleeding points ligatured	Death	Unpublished
11	—	F., 21	Sept., 1904	—	Two bleeding points ligatured <i>en masse</i>	Recurrence of hæmorrhage, 2 days later	Do.
12	—	F., 29	Feb., 1905	—	Ulcer ligatured <i>en masse</i>	Has had several attacks of hæmatemesis since operation	Do.



TABLE VI  
RESULTS OF NINETY-TWO OPERATIONS FOR HOUR-GLASS STOMACH (NON-MALIGNANT)

No.	Operator.	Date, Sex, & Age.	Condition found.	Operation.	Result.	After-history.	Reference.
1	Bardeleben	1889 (F.)	Hour-glass stomach	Gastroplasty	Recovery	Oct., 1904: Quite well (letter from Professor Bardeleben's son)	Klemperer, <i>Berl. Klin. Woch.</i> , 1889
2	Kruckenbergl	1892 (F., 33)	Hour-glass stomach (thickened scar)	Gastroplasty; excision of ulcer	Recovery	Complete relief after operation; gained 21 pounds three months after operation. Present condition not known (letter from Dr. Meinhard-Schmidt)	<i>Münch. Med. Woch.</i> , 1893, No. 19 (Meinhard-Schmidt)
3	Zeller . . .	1893	Hour-glass stomach	Resection of cicatrix of healed ulcer	Death from septic peritonitis, result of perforation of another ulcer	—	<i>Centralblatt für Chir.</i> , 1894
4	Doyen . . .	1893	Hour-glass stomach; ulcer adherent to abdominal wall	Gastroplasty; scraping of ulcer, and inversion	Recovery	—	"Traitement Chirurgical des Affections de l'Estomac," Paris, 1895, p. 308
5	Wölfler . .	1894 (F., 36)	Hour-glass stomach	Gastro-gastrostomy	Recovery	Gained 18 pounds in three months. Nov., 1904: Works hard, and can eat anything	<i>Beit. zur Klin. Chir.</i> , 1895, No. 13, Heft 1, p. 221

No.	Operator.	Date, Sex, & Age.	Condition found.	Operation.	Result.	After-history.	Reference.
6	Eiselsberg ..	1894 (F., 28)	Hour-glass stomach; much induration	Gastro-gastrostomy	Death; septic peritonitis. Recovery. Gained 42 pounds in six months	Sutures passed through indurated area gave way	<i>Archiv. für Klin. Chir.</i> , Band i., p. 4
7	Watson ..	1895 (F., 32)	Constriction due to old ulcer	Gastro-gastrostomy	Recovery	Quite well five years after operation, working hard as a cook; then married and was lost sight of	<i>Boston Medical and Surgical Journal</i> , 1896
8	Lauenstein	1895 (F., 43)	Constriction due to cicatrix	Gastro-gastrostomy	Recovery	Gained 34 pounds in six months	<i>Münch. Med. Woch.</i> , 1896, No. 43
9	Jaboulay ..	July, 1895, (F., 41)	Both cavities dilated	Gastroplasty	Recovery	1901: Great emaciation, recurrence of symptoms; gastro-gastrostomy. Died six months later	<i>Arch. Prov. de Chir.</i> , 1896, p. 641
10	Langenbuch	1896 (F., 43)	Hour-glass stomach	Gastroplasty	Recovery	Not relieved	<i>Berl. Klin. Woch.</i> , 1896, p. 855
11	Van Noorden	1896 (F., 25)	Ulcer causing constriction had perforated	Establishment of fistula	Death on fifty-sixth day	—	<i>Münch. Med. Woch.</i> , 1896
12	Hofmeister ..	1896 (F., 34)	Cicatrix due to ulcer	Gastroplasty; excision of ulcers	Recovery	Aug., 1904: Patient alive and well	<i>Beit. zur Klin. Chir.</i> , 1896, p. 351
13	Schwarz ..	1896 (F., 30)	Constriction due to adhesions	Gastro-gastrostomy	Recovery without relief	Later gastrolysis performed and symptoms relieved	<i>Wiener Klin. Woch.</i> , June, 1896, p. 548
14	Eiselsberg ..	1896 (F., 49)	Ulcer and adhesions	Gastroplasty	Recovery and relief	Recurrence of symptoms after nine months	<i>Archiv. für Klin. Chir.</i> , 1899, Band lix., Heft 4

15	Tuffier ..	1897	Both cavities dilated	Gastro-enterostomy between cardiac pouch and intestine	Recovery without relief	Second operation ; gastro-enterostomy between jejunum and pyloric pouch ; complete relief. Oct., 1904 : Quite well	"Bulletin et Mémoire de la Société de Chirurgie," 1897
17	Watson Cheyne	1897 (F., 46)	Both pouches dilated	Gastroplasty	Recovery	Patient cannot be traced (Sept., 1904)	<i>The Lancet</i> , March 19, 1898, p. 785
17	Eiselsberg ..	1898 (F., 34)	Hour-glass stomach ; adhesions ; perigastric abscess	Gastroplasty	Death in ten hours	—	<i>Archiv. für Klin. Chir.</i> , Band lix., Heft 4
18	Eiselsberg ..	1898 (F., 34)	Many adhesions ; ulcer eroding pancreas	Gastroplasty ; jejunostomy	Death in twelve hours	—	<i>Ibid.</i>
19	Eiselsberg ..	1898 (F., 33)	Constriction of pyloric third of stomach	Gastroplasty	Recovery with relief	One year later gastro-enterostomy on account of recurrence of symptoms	<i>Archiv. für Klin. Chir.</i> , Band lix., Heft 4
20	Eiselsberg ..	1898 (F., 30)	Constriction near cardiac end	Gastroplasty	Recovery with relief	Recurrence of symptoms after four months, then second gastroplasty. Recurrence nine months later, then gastro - anastomosis. Symptoms again recurred two months later	<i>Ibid.</i>
21	Von Unge ..	1898 (F., 22)	Circular constriction	Gastroplasty	Recovery	Nov., 1904 : In good health	<i>Centralb. für die Grenzgebiete der Medizin und Chirurgie</i> , May, 1899, p. 379



No.	Operator.	Date, Sex, & Age.	Condition found.	Operation.	Result.	After-history.	Reference.
22	Von Unge ..	1898	Circular constriction; mass of adhesions	Gastroplasty	Recovery	One year after operation as bad as before operation (private letter)	<i>Centralb. für die Grenzgebiete der Medizin und Chirurgie</i> , May, 1899, p. 379
23	Hastings Gilford	1898	Hour-glass stomach; perforation and formation of a third pouch	Gastroplasty	Recovery	Died one month after operation from hæmatemesis. The wound in the stomach was partially unhealed at the point of thickest induration	Guy's Hospital Reports, vol. liii., 1898; and <i>Brit. Med. Journ.</i> , 1902, ii. 1527
24	Courmont ..	1898	—	Gastroplasty	Recovery and relief	—	Hochenegg, <i>Wien. Klin. Woch.</i> , 1898
25	Cuniston	1898 (F., 47)	—	Gastroplasty	Recovery with relief	Sept., 1904: Patient in excellent health	<i>New York Med. Journ.</i> , 1899, p. 237
26	Hochenegg	1898 (M., 25)	Great distension of cardiac pouch	Gastro-gastrostomy	Recovery	Quite well and free from gastric symptoms for two years; then he committed suicide, owing to disappointment at failing to pass an examination	<i>Wien. Klin. Woch.</i> , 1898, p. 514
27	MacGillivray	(F., 24)	Hour-glass stomach, with perforation of ulcer	Gastroplasty	Recovery	Quite well July, 1900	<i>Scot. Med. and Surg. Journ.</i> , July, 1899
28	Aug. Bier ..	July, 1898 (F., 39)	Hour-glass stomach; contraction about a chronic ulcer	Gastroplasty	Recovery	Complete relief (letter from Dr. Bier, Dec., 1904)	Vier Fälle von Sanduhrmagen, Ed. Asbeck, Kiel, 1898

29	Aug-Bier ..	1898 (F., 29)	Thought to be pyloric stenosis	Gastro-duodenostomy	Died.	Pyloric pouch of hour-glass stomach had been mistaken for whole stomach	<i>Loc. cit.</i>
30	Aug-Bier ..	1898 (F., 51)	Hour-glass stomach; ulcer near lesser curvature	Gastroplasty	Recovery	Complete relief when heard of two years ago (Dr. Bier)	<i>Loc. cit.</i>
31	Aug-Bier ..	1898 (M., 56)	Hour-glass stomach; ulcer	Gastroplasty; excision of ulcer	Death	—	<i>Loc. cit.</i>
32	Morse ..	June, 1898 (M., 60)	Hour-glass stomach; adhesions	Gastroplasty; gastrotomy	Recovery	Gained flesh, but not quite free from pain. July, 1901, second operation: opening further enlarged by second gastroplasty. Oct., 1904: Quite well; can eat anything, but some pain at times	<i>Lancet</i> , May 13, 1899
33	Kammerer ..	(M., 46)	Hour-glass stomach	Gastro-gastrostomy	Recovery	Patient lost sight of. Letter from Dr. Kammerer	Quoted by Mayo Robson and Moynihan, <i>loc. cit.</i>
34	Eiselsberg ..	1899 (F., 32)	Constriction and adhesions	Gastroplasty	Recovery; relief	—	<i>Loc. cit.</i>
35	Eiselsberg ..	1899 (F., 43)	Constriction, cardiac third; dense adhesions	Gastro-jejunostomy	Recovery and complete relief	—	<i>Loc. cit.</i>

No.	Operator.	Date, Sex, & Age.	Condition found.	Operation.	Result.	After-history.	Reference.
36	Morse . . .	March, 1899	Hour-glass stomach	Gastroplasty	Recovery	Some pain after recovery. Jan., 1900: Second operation, and adhe- sions separated. Oct., 1904: Quite well, ex- cept slight pain at times (? adhesions)	<i>Lancet</i> , May 13, 1899
37	Watson . .	1900	Constriction; per- forated ulcer, with perigastric abscess	Gastroplasty; gas- trolysis; ulcer in- verted and su- tured	Death on fourth day from gen- eral septic peritonitis	—	<i>Annals of Surgery</i> , July, 1900
38	Klein . . .	1900	Hour-glass stomach, following swallow- ing of HCl	Gastro-duodenos- tomy	Recovery, with re- lief	—	<i>Wien. Klin. Rundschau</i>
39	Sidney Martin and Bilton Pollard	1900	Hour-glass stomach and pyloric steno- sis; perigastric abscess	Gastro-jejunostomy, the second com- partment of the stomach united to the intestine	Death on fifth day	—	<i>Brit. Med. Jour.</i> , 1900, ii.
40	A. B. Mitchell	Nov., 1900 (F., 29)	Hour-glass stomach	Gastro-gastrostomy	Recovery	One attack of hæmate- mesis 1 year after ope- ration, but well since Oct., 1904: Well, except occasional bilious at- tacks, with headache and vomiting, lasting 24 hours	<i>Lancet</i> , 1903, ii., p. 588 <i>Loc. cit.</i>
41	Hastings Gil- ford	1900 (F., 37)	Hour-glass stomach (? congenital)	Gastroplasty	Recovery		



42	Hastings Gilford	1900 (F., 38)	Hour-glass stomach, two unequal sacs	Gastroplasty	Recovery	At first repeated attacks of severe vomiting. Aug., 1903: Well.	<i>Loc. cit.</i>
43	Childe	1901	Hour-glass stomach	Gastro-jejunostomy between pyloric segment and jejunum	Death on fifth day	—	<i>Brit. Med. Jour.</i> , 1901, i., p. 695
44	Cumston	1901	Hour-glass stomach	Posterior gastro-jejunostomy	Recovery	Quite well 3 years after operation	Unpublished
45	Blake	July, 1902	Constriction near cardiac end	Dilatation of stricture; gastro-jejunostomy, pyloric pouch	Recovery	Gained 30 pounds in 4 months	Quoted by Mayo Robson and Moynihan
46	A. B. Mitchell	March, 1902 (F., 41)	Hour-glass stomach	Gastro-gastrostomy	Recovery	Well for 1 year, then pain returned. April, 1903: Perforated; perforation sutured. Recovered, but pain recurred in Nov., 1903, and gastro-jejunostomy performed. Nov., 1905: In excellent health; says she never felt better	<i>Brit. Med. Jour.</i> , 1905, ii., p. 779
47	A. B. Mitchell	April, 1902 (M., 32)	Hour-glass stomach	Posterior gastro-jejunostomy to cardiac pouch	Recovery	Nov., 1905: In perfect health; never had slightest inconvenience since operation	<i>Loc. cit.</i>
48	A. B. Mitchell	Sept., 1902 (F., 29)	Hour-glass stomach	Gastro-gastrostomy	Recovery	Cannot be traced	<i>Loc. cit.</i>

No.	Operator.	Date, Sex, & Age.	Condition found.	Operation.	Result.	After-history.	Reference.
49	A. B. Mitchell	Oct., 1902 (F., 38)	Hour-glass stomach	Gastro-gastrostomy	Recovery	Cannot be traced	<i>Loc. cit.</i>
50	Cumston ..	1903	Hour-glass stomach	Anterior gastro- jejunostomy	Recovery	Quite well 18 months after operation	Unpublished
51	H. J. Paterson	Sept., 1904	Hour-glass stomach; dense adhesions	Gastroplasty and gastro-jejunostomy, pyloric pouch	Recovery	Feb., 1906. Complete relief	Unpublished (Dr. Park- inson's case)
52	Hofmeister ..	Oct., 1904 (F., 39)	Hour-glass stomach; (? congenital); py- loric stenosis	Resection of stric- ture; gastro-jeju- nostomy	Recovery	Quite well	Privately communicated
53	Atkins ..	Feb., 1904	Hour-glass stomach; small pyloric pouch	Gastro-jejunostomy to cardiac pouch	Recovery	July, 1905. Quite well, except flatulency after errors in diet	<i>Brit. Med. Jour.</i> , 1905, ii., p. 789
54	A. B. Mitchell	June, 1904 (F., 26)	Hour-glass stomach	Gastroplasty and gastro-jejunostomy	Recovery	Nov., 1905. Perfect re- sult	—
55	H. J. Paterson	July, 1905 (F., 42)	Trifid stomach	Gastroplasty and gastro-jejunostomy	Recovery	Feb., 1906. Complete relief	Unpublished (Dr. Park- inson's case)
56	Mayo Robson	May, 1899 (F., 45)	Hour-glass stomach; perforation in dense mass of ad- hesions	Gastroplasty	Recovery	Gained 9 pounds in 2 months	'Diseases of Stomach,' p. 358
57	Mayo Robson	June, 1899 (F., 26)	Trifid stomach	Gastroplasty	Recovery	Quite well Jan., 1904	—
58	Mayo Robson	July, 1899 (F., 23)	Hour-glass stomach	Gastroplasty	Recovery	—	—

59	Mayo Robson	July, 1899 (F., 48)	Hour-glass stomach	Gastroplasty	Recovery	Subsequently gastrolisis and gastro-enterostomy (Jan., 1901). Sept., 1904: Quite well	—
60	Mayo Robson	Sept., 1899 (F., 52)	Hour-glass stomach	Gastroplasty	Recovery	Nov., 1904: Has gained over 4 stone. Free from any gastric trouble. Ovariectomy in Aug., 1904	—
61	Mayo Robson	Oct., 1899 (F., 36)	Dense narrow isthmus; pyloric stenosis	Gastroplasty; pyloroplasty	Death	Pyloroplastic stitches ulcerated through	—
62	Mayo Robson	March, 1900 (F., 27)	Hour-glass stomach	Gastroplasty	Recovery	Nov., 1904: In excellent health; has had two or three attacks of indigestion since operation	—
63	Mayo Robson	March, 1900 (F., 29)	Constriction 3 inches from pylorus	Gastroplasty	Recovery	—	—
64	Mayo Robson	April, 1900 (M., 18)	Hour-glass stomach	Gastroplasty	Recovery	Some dilatation of stomach; lavage necessary for a time; care necessary in diet	—
65	Mayo Robson	April, 1900 (F., 44)	Signs of old perforation	Anterior gastro-enterostomy	Death	Died on twelfth day (? perforation)	—
66	Mayo Robson	June, 1900 (F., 44)	Hour-glass stomach	Gastroplasty	Recovery	Nov., 1904: Quite well. 'Can eat dumplings without any ill-effect!'	—
67	Mayo Robson	Oct., 1900 (M., 52)	Hour-glass stomach	Posterior gastro-enterostomy	Recovery	Nov., 1904: Never a day's trouble since operation	—



No.	Operator.	Date, Sex, & Age.	Condition found.	Operation.	Result.	After-history.	Reference.
68	Mayo Robson	Nov., 1900 (F., 25)	Both cavities di- lated	Posterior gastro-en- terostomy	Recovery	Some recurrence of pain and vomiting in April, 1901. Quite well later	—
69	Mayo Robson	Dec., 1900 (M., 53)	Hour-glass stomach	Posterior gastro-en- terostomy	Recovery	—	—
70	Mayo Robson	April, 1901 (F.)	Hour-glass stomach	Gastroplasty	Recovery	Jan., 1904. Reported well	—
71	Mayo Robson	Oct., 1901 (F., 29)	Both cavities dilated	Posterior gastro-en- terostomy	Recovery	Dec., 1903: Reported well	—
72	Mayo Robson	March, 1902 (F.)	Hour-glass stomach	Posterior gastro-en- terostomy, proxi- mal cavity	Recovery	Dec., 1903: Completely relapsed (? adhesions)	—
73	Mayo Robson	Nov., 1903 (F., 41)	Hour-glass stomach; localized perfora- tion	Posterior gastro-en- terostomy, proxi- mal cavity	Recovery	—	—
74	Moynihan ..	Aug., 1899 (F., 39)	Hour-glass stomach; On separating the stomach from the abdominal wall, an opening into the viscus was ex- posed, and the stomach contents escaped	Gastroplasty	Recovery	Nov., 1904: Remarkably well; working hard as farmer's wife (Dr. Bailey)	'Diseases of Stomach,' and private communi- cation
75	Moynihan ..	April, 1900 (F., 27)	Hour-glass stomach	Gastroplasty	Recovery	Nov., 1904: Quite well (Dr. Waugh)	—

76	Moynihan ..	Jan. 24, 1901 (M., 45)	Hour-glass stomach. The scar of the ulcer was equal in size to a florin	Gastroplasty; gastrotomy	Recovery	One year later symptoms returned; gastro-enterostomy performed. Oct., 1904: Quite well (Dr. Pritchard)	—
77	Moynihan ..	Mar. 6, 1901 (F., 28)	Hour-glass stomach. Round constriction and many adhesions	Gastro-gastrostomy; gastrotomy	Recovery	In Sept., 1904, died during puerperium. Quite well till death (Dr. Waugh)	—
78	Moynihan ..	Mar. 9, 1901 (M., 55)	Hour-glass stomach. On invaginating a finger from each side of constriction no opening could be felt; many adhesions	Gastroplasty	Recovery	Further history unobtainable	—
79	Moynihan ..	Apr. 6, 1901 (M., 46)	At the middle of a hugely dilated stomach a constriction that would admit four fingers	Posterior gastro-enterostomy to pyloric pouch	Death	—	—
80	Moynihan ..	May 24, 1901 (M., 48)	Hour-glass stomach	Posterior gastro-enterostomy	Recovery	Dec., 1904: In good health (Dr. Isaac Taylor)	—
81	Moynihan ..	May, 1901 (F., 50)	Hour-glass stomach	Posterior gastro-enterostomy. Shortly after jejuno-jejunostomy for regurgitant vomiting	Recovery	Nov. 14: Cured of all stomach trouble. Suffers from uterine trouble	—

No.	Operator.	Date, Sex, & Age.	Condition found.	Operation.	Result.	After-history.	Reference.
82	Moynihan ..	June, 1901 (M., 39)	Hour-glass stomach	Posterior gastro-en- terostomy; py- lorodiosis	Death	—	—
83	Moynihan ..	June, 1901 (F., 25)	A large mass found at the junction of the two pouches, densely hard, im- movable, and ad- herent firmly to pancreas. Several enlarged glands. Supposed to be malignant	Dilatation of stric- ture	Recovery	Sept., 1904: In good health; has gained 3 stone in weight!	—
84	Moynihan ..	April, 1901 (M., 40)	The stomach ad- herent to the an- terior abdominal wall. On separat- ing the adhesion, the stomach was opened	Gastroplasty	Recovery	Nov., 1904: 'As well as he ever was in his life' (Dr. Exley)	—
85	Moynihan ..	July, 1901 (F., 26)	Hour-glass stomach and tight pyloric obstruction	Gastroplasty and posterior gastro- enterostomy into the distal pouch	Death	—	—
86	Moynihan ..	April 22, 1902 (F., 42)	An hour-glass sto- mach; tight stric- ture at the py- lorus	Gastroplasty; pos- terior gastro-en- terostomy from pyloric pouch	Recovery	Nov., 1904: Quite well. Child since operation. Sometimes constipa- tion, accompanied by vomiting	—



87	Moynihan ..	Nov. 29, (F., 27)	Trifid stomach	Gastro-gastrostomy; gastro - enteros- tomy	Recovery	Nov., 1904 : Perfectly well ever since opera- tion	—
88	Moynihan ..	Jan. 20, 1903 (F., 34)	An hour-glass sto- mach and an hour-glass duo- denum	Gastro-gastrostomy and posterior gas- tro - enterostomy to the pyloric pouch	Recovery	Nov., 1904 : Digestion good ; slight flatulent distension and tender- ness over epigastrium ; otherwise in good health	—
89	Moynihan ..	July 14, 1903 (F., 35)	An hour - glass stomach	Posterior gastro- enterostomy	Recovery	Dec., 1904 : Quite cured	—
90	Moynihan ..	Jan., 1904 (F.)	Acute symptoms 18 hours ; perfora- tion of hour - glass stomach	Perforation sutured; gastroplasty	Recovery	Sept., 1904 : Quite well	—
91	Moynihan ..	Feb., 1904 (F., 42)	Inflammatory mass adherent to an- terior abdominal wall	Ulcer excised ; too bad for gastro- enterostomy	Recovery	June, 1904 : Has gained 2 stone ; eats any- thing, and does her own housework. July, 1905 : Symptoms be- ginning again, so that gastro - enterostomy may be necessary (Mr. Moynihan)	—
92	Moynihan ..	March, 1904 (F., 33)	Large ulcer caus- ing hour - glass stomach	Gastro-gastrostomy; gastro-enteros- tomy	Recovery	Oct., 1905 : Has gained 2 stone. Quite well	—

## SUMMARY OF OPERATIONS FOR HOUR-GLASS STOMACH

Gastroplasty only : 43 operations ; 4 deaths.

Complete relief .. .. .	16
Relief, but not perfect .. .. .	3
Unrelieved .. .. .	1
Relapsed .. .. .	9
Relief, but subsequent condition unknown .. .. .	7
Untraced .. .. .	3
	<hr/>
	39
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Gastro-gastrostomy only : 14 operations ; 1 death.

Complete relief (1 patient has had hæmatemesis once) .	4
Relieved, but died from other cause .. .. .	1
Relieved, but remote result unknown .. .. .	2
Unrelieved .. .. .	1
Relapsed .. .. .	3
Untraced .. .. .	2
	<hr/>
	13
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Gastro-jejunostomy only : 19 operations ; 4 deaths.

Completely relieved .. .. .	10
Relieved, but remote result unknown .. .. .	3
Unrelieved until second operation .. .. .	1
Relapsed .. .. .	1
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Gastro-jejunostomy subsequent to gastroplasty : 3 operations.

Complete relief .. .. .	2
Remote result unknown .. .. .	1
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	3
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Gastro-jejunostomy subsequent to gastro-gastrostomy : 1 operation with relief.

Gastroplasty with gastro-jejunostomy : 6 operations ; recovery and complete relief in 5 ; 1 died.

Gastro-gastrostomy with gastro-jejunostomy : 3 operations ; recovery and relief in all.

Excision of ulcer : 2 operations ; 1 died, 1 recovered and relapsed.

Gastroplasty with pyloroplasty : 1 operation ; 1 death.

Pylorodiosis with gastro-jejunostomy : 1 operation ; 1 death.

Gastro-duodenostomy : 2 operations ; 1 completely relieved, 1 death.

Dilatation with gastro-jejunostomy : 1 operation ; recovery, but remote history unknown.

Dilatation : 1 operation ; complete relief.

TABLE VII  
RESULTS OF OPERATION ON FIFTY-SEVEN CASES OF INFANTILE HYPERTROPHIC STENOSIS  
OF THE PYLORUS

No.	Operation.	Age.	Operator.	Result.	Date of Operation, etc.	After-history.	Reference.
1	Gastro-jejunostomy	7 weeks	Löbker	Death	—	—	Weill et Pehu, <i>Gaz. des Hôp.</i> , Oct. 5, 1901
2	Gastro-jejunostomy	(?)	W. Meyer	Death	Adler's case; child in a very debilitated state	—	<i>Trans. New York Surg. Soc.</i> , 1898, p. 246
3	Gastro-jejunostomy (posterior)	10 weeks	Löbker	Recovery	July, 1898	—	<i>Verhandl. der Deutsch. Gesellschaft. f. Chir.</i> , xxix., 1900, I.S., p. 148, and private letter
4	Gastro-jejunostomy (anterior)	6 weeks	Fritzsche	Recovery	Monnier's case. Jan., 1899	Dec., 1905: Quite well ever since operation	<i>Deutsch. Zeitschr. f. Chir.</i> , 1901, and letter from Dr. Fritzsche
5	Gastro-jejunostomy (anterior)	8 weeks	Kehr	Recovery	Abel's case. Oct., 1899	Dec., 1905: Quite well. Has never had any gastric trouble since operation. Strong, healthy child	<i>Münch. Med. Woch.</i> , xlv., p. 1607, 1899, and letters from Dr. Abel and father of boy
6	Gastro-jejunostomy (anterior), (Murphy's button)	6 weeks	W. Meyer	Death	Button used too large for contracted jejunum	—	<i>New York Med. Record</i> , liii., p. 709
7	Pylorectomy (Kocher's operation)	63 days	H. J. Stiles	Death	March 7, 1900. Thomson's case (unpublished)	—	Quoted by Cautley and Dent, <i>Trans. R.M. Chir. Soc.</i> , lxxxvi., p. 497



No.	Operation.	Age.	Operator.	Result.	Date of Operation, etc.	After-history	Reference.
8	Gastro-jejunostomy (posterior)	4 to 5 weeks	Kehr	Recovery	1900	Nov., 1904: Now 4 years since operation; perfectly strong and healthy	29ster Congress Verhand. der Deutsch. Gesellsch. für Chirurg., April, 1900, p. 124
9	Gastro-jejunostomy	7 weeks	Stern	Death	Operation in this case had been unduly delayed; anæsthetic discontinued after first incision; the intestines protruded through the abdominal incision; there was much difficulty in replacing them	—	<i>Deutsche Med. Woch.</i> , Sept. 22, 1898, vol. xxiv., p. 601
10	Gastro-jejunostomy	35 days	H. J. Stiles	Death	Thomson's case (unpublished). March 14, 1900	Died from hæmatemesis 18 hours after operation	Private communication
11	Loreta's operation	8 weeks	Nicoll	Recovery	1899	Oct., 1904: Quite well	<i>Brit. Med. Jour.</i> , Sept., 1900, p. 578, and private letter
12	Loreta's operation	25 days	H. J. Stiles	Death	Thomson's case. March 20, 1900	Death in 48 hours. Post-mortem, rupture of posterior wall of pylorus	Private communication
13	Pyloroplasty	10 weeks	Braun	Death	Death in 20 hours	—	<i>Münch. Med. Woch.</i> , 1901
14	Loreta's operation	2 months	Schmidt	Recovery	1901	Nov., 1904: Perfectly well and healthy	<i>Archiv. für Klin. Chir.</i> , von Langenbeck, lxxiii., 1901, p. 977

15	Loreta's operation	4 weeks	H. J. Stiles	Recovery	Thomson's case. May 10, 1902; weight, 5 pounds 13 ounces	Jan. 1, 1906: Strong, healthy child. 'Quite free from stomach symptoms of any kind', Relief at first, but speedy relapse and death from starvation Attack of diarrhoea 3 weeks after operation; died 8 weeks after operation Vomiting recurred 10 days later; died 15 days after operation Rupture of anterior wall of pylorus during stretching. Jan., 1906: Now in robust health	Private communication
16	Loreta's operation	(?)	Flynn	Recovery	—		<i>Australas. Med. Gaz.</i> , 1902
17	Pyloroplasty	8 weeks	Dent	Recovery	Cautley's case. June 10, 1902		Cautley and Dent, <i>loc. cit.</i>
18	Loreta's operation	5 weeks	Stiles	Recovery	Haultain's case. July, 1902		Private communication
19	Loreta's operation	77 days	H. J. Stiles	Recovery	Thomson's case. Aug. 13, 1902		Do.
20	Pyloroplasty	6 weeks	Dent	Recovery	Cautley's case. Aug 19, 1902	Jan., 1906: 'In perfect and robust health'	Cautley and Dent, <i>loc. cit.</i> , and private communication
21	Loreta's operation	7 weeks	F. F. Burg-hard Murray	Recovery	Still's case (unpublished). Sept., 1902	Nov., 1904: Quite well	Privately communicated
22	Pyloroplasty	4½ months		Recovery	Guthrie's case. Oct. 23, 1902: Stomach much dilated	Sept., 1903: Quite well	Privately communicated; case shown at the Society for the Study of Diseases of Children, Oct., 1902

No.	Operation.	Age.	Operator.	Result.	Date of Operation, etc.	After-history.	Reference.
23	Loreta	5½ weeks	Stiles	Death	Thomson's case. Nov., 1902	Death from collapse in 27 hours; convulsions and almost moribund condition before operation	Private communication
24	Gastro-jejunostomy (posterior) Loreta	6 weeks	Schotten	Death	Dec., 1902	Death in 22 hours from exhaustion	<i>Sammelung Klin. Vorträge</i> , No. 368, p. 155, 1904
25		5 weeks	Burghard	Recovery	Dec., 1902. Still's case	Gained 11½ pounds in 6 months	Private communication
26	Loreta	4 weeks	Stiles	Death	Thomson's case. April, 1903	Died of peritonitis 5 days later	Do.
27	Loreta	8 weeks	Burghard	Recovery	Mar., 1903. Still's case	Gained 4 pounds 5 ounces in 3 months	Do.
28	Loreta	6 weeks	Stiles	Death	Thomson's case. May, 1903	Died same day. Temp., 105°; almost moribund before operation	Do.
29	Loreta	10 weeks	Burghard	Recovery	May, 1903. Still's case. Weight, 6 pounds 12 ounces	Feb., 1904: Weight, 17 pounds	Do.
30	Loreta	10½ weeks	Stiles	Recovery	Thomson's case. May, 1903	3 weeks after operation symptoms recurred, so gastro-jejunostomy was performed (see next case)	Private letter
31	Gastro-jejunostomy	Same as case No. 26	Stiles	Recovery	Thomson's case. June, 1903	Died 1½ years later from septic symptoms, five days after operation by another surgeon for adenoids	Do.

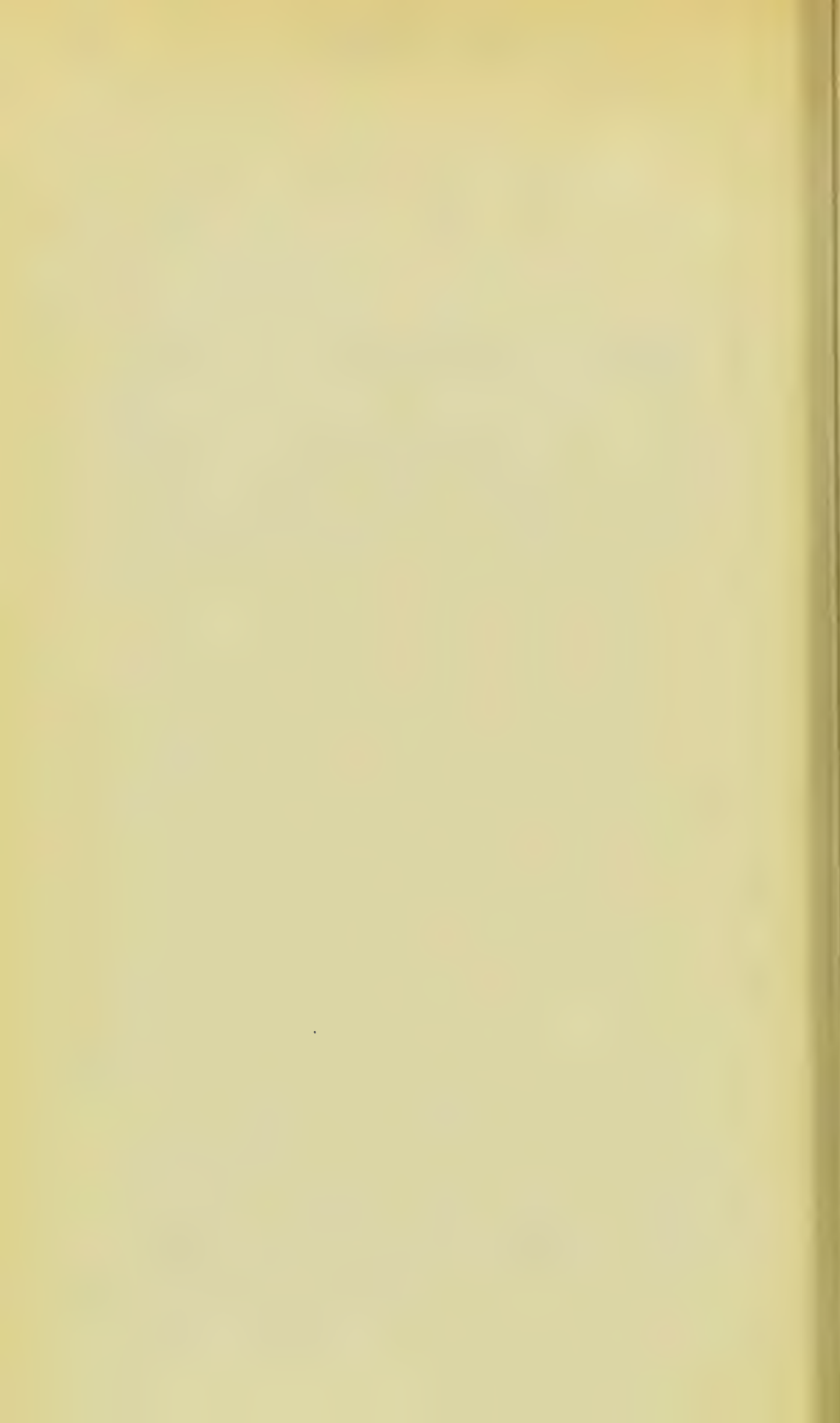


32	Loreta	8 months	Burghard	Recovery	July, 1903. case	Guthrie's	Gained 11 ounces in 1 month	Do.
33	Loreta	3 months	Burghard	Recovery	Still's case.	Sept., 1903	Weight at time of operation, 6 pounds. June, 1904: Weight, 19 pounds	Do.
34	Gastro-jejunostomy (posterior)	5 months	Mackay	Death	Lived 36 hours. The anastomotic opening was blocked by reduplicated folds of mucous membrane		—	<i>Intercolon. Med. Jour. of Australasia</i> , 1903, p. 571
35	Loreta	7 weeks	Burghard	Recovery	Still's case.	Oct., 1903	Subsequently died in a convulsion early in Jan., 1905	Private communication
36	Gastro-jejunostomy (posterior)	(?)	Jordan	Death	—	—	—	<i>Münch. Med. Woch.</i> , 1903
37	Gastro-jejunostomy	(?)	Jordan	Death	—	—	—	Do.
38	Loreta's operation	7 weeks	Mackay	Death	Vomiting after operation, and death in 22 hours		Pylorus found contracted and blocked by folds of mucous membrane	<i>Intercolon. Med. Jour. of Australasia</i> , 1903, p. 571
39	Pyloroplasty	51 days	Dent	Recovery	July 23, 1903		June, 1905: Extremely well in all respects	<i>Brit. Jour. of Children's Diseases</i> , vol. i., p. 16, 1904, and private communication
40	Pyloroplasty	34 days	Dent	Recovery	Oct. 23, 1903		Dec., 1905: Perfectly well	<i>Loc. cit.</i> , and private letter
41	Pyloroplasty	9 weeks	Campbell	Death	Sept., 1903. Lived 6 days		Post mortem: Pyloric obstruction due to redundant mucous membrane blocking the canal	<i>Brit. Med. Jour.</i> , 1904 i., 1483

No.	Operation.	Age.	Operator.	Result.	Date of Operation, etc.	After-history.	Reference.
42	Gastro-jejunostomy (anterior)	7 weeks	Schotten	Recovery	Sept., 1903	Jan., 1906: Quite well and strong	<i>Sammelung Klin. Vorträge</i> , No. 368, 1904, p. 155, and private letter
43	Gastro-jejunostomy (posterior)	7 weeks	Munro	Death	—	Died from exhaustion in 23 hours	<i>Boston Med. and Surg. Jour.</i> , 1904
44	Gastro-jejunostomy (posterior)	7 weeks	Anstey Giles	Recovery	—	Child quite well 3 months later	<i>Austral. Med. Gaz.</i> , 1904, p. 396
45	Loreta	7 weeks	Burghard	Recovery	Still's case. Sept., 1904	—	Private communication
46	Loreta	8 weeks	Burghard	Death	A. Morrison's case. Sept., 1904	—	—
47	Gastro-jejunostomy (posterior)	—	Greef	Death	—	—	<i>Med. Record</i> , Aug. 27, 1904
48	Gastro-jejunostomy (posterior)	14½ weeks	Stiles	Recovery	Thomson's case. April, 1904	Rapid and uneventful recovery	Private letter from Dr. Stiles
49	Pyloroplasty	29 days	Dent	Recovery	May, 1904	Nov., 1905: Perfectly well in all respects	Private communication
50	Gastro-jejunostomy (posterior)	4½ weeks	Stiles	Recovery	Thomson's case. Oct., 1904	Recovery slow and tedious; little improvement until six weeks after operation; now (Jan., 1906) strong and well	Do.

51	Gastro- jejunostomy (posterior)	7½ weeks	Stiles	Recovery	Thomson's case. 1904	Oct., 1904	Never thrived well, but died of acute enteritis 7 weeks later	Do.
52	Gastro- jejunostomy (posterior)	10 weeks	Stiles	Death	Thomson's case. 1904	Nov., 1904	Took the anæsthetic badly, and died within half an hour of com- pletion of operation	Do.
53	Loreta	7 weeks	Burghard		Still's case.	Jan., 1905	Died in 27 hours. Post mortem: Rent in first part of duodenum	Do.
54	Gastro- jejunostomy (posterior)	6 weeks	Stiles	Death	Thomson's case. 1905	March, 1905	Recovery from opera- tion, but died 11 days later; diarrhoea set in on day of operation, and persisted until death	Do.
55	Gastro- jejunostomy (posterior)	4½ weeks	Stiles	Death	Thomson's case. 1905	March, 1905	Death in 48 hours; per- sistent vomiting. Post- mortem showed that anastomotic loop of small intestine had been unwittingly twisted at the opera- tion	Do.
56	Pyloroplasty	6 weeks	Stiles	Death	Thomson's case. 1905	May, 1905	Vomiting persisted; death 17 hours later. Post-mortem showed pyloric obstruction, the result of operation	Do.
57	Gastro- jejunostomy (posterior)	6 weeks	Stiles	Recovery	Thomson's case. 1905	June, 1905	Never thrived after opera- tion, but lost weight steadily, and died, ap- parently from maras- mus, 5 weeks later	Do.





## TABLE VIII

TABLE COMPRISING TWENTY-SEVEN CASES OF TOTAL GASTRECTOMY FOR MALIGNANT DISEASE

No.	Sex and Age.	Operator.	Date of Operation.	Method of Anastomosis.	Nature of Growth.	Immediate Result.	After-result.	Died after Operation.	Years living after Operation.	Reference.
1	F., 50	Connor	1882	—	Cancer	Death during operation	—	—	—	Quoted by Hemmeter, <i>New York Med. Rec.</i> , March, 1898, p., 409
2	—	Bernays	Sept., 1893	Œsophagus to duodenum, end to end	Sarcoma	Death after 36 hours	—	—	—	Hemmeter, <i>loc. cit.</i>
3	F., 56	Schlatter	Sept., 1897	Œsophagus to jejunum, lateral implantation	Spheroidal-celled	Recovery	Gained 13 pounds in 7 months; lived 13 months	13 months	—	<i>Beitrag zur Klin. Chir.</i> , 1897, t. xix., p. 757
4	F., 66	Brooks-Brigham	Feb., 24, 1898	Œsophagus to duodenum, Murphy's button	Adeno-carcinoma	Recovery	Dec., 1905: Still alive and well (letter from Dr. Macdonald)	—	8 years	<i>Boston Med. and Surg. Jour.</i> , 1898, vol. cxxxviii., No. 18, p. 415
5	F., 53	Maurice Richardson	May, 1898	Œsophagus to duodenum, end to end	Carcinoma	Recovery	Well 5½ months: died 9 months	9 months	—	<i>Boston Med. and Surg. Jour.</i> , 1898, No. 16, p. 381, and letter from Dr. Richardson
6	M., 38	Macdonald	1898	Œsophagus to duodenum, Murphy's button	Carcinoma	Recovery	Nov., 1905: Alive and at work as farm labourer, eating ordinary hard food	—	7 years	<i>Jour. Amer. Med. Assoc.</i> , 1898, ii., p. 338, and private letter
7	F., 44	Kocher	—	Œsophagus to duodenum; portion of transverse colon resected	Carcinoma	Death	—	—	—	<i>Deut. Med. Woch.</i> , 1897

No.	Sex and Age.	Operator.	Date of Operation.	Method of Anastomosis.	Nature of Growth.	Immediate Result.	After-result.	Died after Operation.	Years living after Operation.	Reference.
8	—	Koble	—	Died before division of œsophagus	—	Died	—	—	—	<i>New York Med. Jour.</i> , 1898, ii., p. 125
9	M., 44	Chavasse	—	œsophagus closed, duodenostomy	—	Death	—	—	—	<i>Brit. Med. Jour.</i> , 1899
10	F., 52	Von Bardeleben	April, 1900	œsophagus to jejunum, lateral	Carcinoma	Recovery	In good health for 18 months; then recurrence, and died 3 months later—in testinal obstruction: whole abdomen filled with growth	1½ years	—	<i>Deutsch. Med. Woch.</i> , 1901, No. 15, and private letter
11	F., 46	J. B. Harvie	—	œsophagus to duodenum	Ulcer carcinomatousum	Recovery	—	—	—	<i>Annals of Surgery</i> , vol. xxxi., 1900, p. 344
12	F., 59	Gallet	Sept., 1899	œsophagus to duodenum; part of pancreas removed; transverse colon resected	Adeno-carcinoma	Recovery	Well for 3½ years; then recurrence	3½ years	—	<i>Soc. Roy. des Sc. Méd. et Anat. de Brux.</i> , 58th year, p. 52, and private letter
13	F., 50	Pauchet	May, 1900	œsophagus to duodenum	Ulcer carcinomatousum	Recovery	Lived 7 months; 4 months' perfect health	7 months	—	<i>Bulletin de la Soc. de Chir.</i> , June 20, 1900
14	M., 35	Dollinger	April, 1901	œsophagus to jejunum	Carcinoma	Recovery	Dec., 1905: Still alive and well, and at work as a policeman; can eat anything	—	4½ years	Quoted by Robson and Moynihan, and private letter



15	F., 42	Herczel	Jan., 1901	Esophagus to jejunum; glands above pancreas enlarged	Adeno-carcinoma	Recovery	Dec., 1905: Perfectly well; able to eat anything except farinaceous food	—	5 years	<i>Beit. zur Klin. Chir.</i> , Bd. xxxiv, p. 336, and private letter
16	—	Dollinger	—	—	—	Death	—	—	—	Private letter
17	F., 41	Gurtea y Hurtado	—	Esophagus to duodenum	—	Recovery	—	—	—	—
18	M., 35	Fedoroff	—	Esophagus to duodenum	—	Death	Death from peritonitis	—	—	<i>Russische Med. Rundschau</i> , i., 1903
19	F., 42	Vander Veer	—	Esophagus to duodenum, Murphy's button	—	Death	Sutures gave way	—	—	Quoted by Mayo Robson and Moynihan
20	F., 49	Moynihan	—	Esophagus to jejunum	Carcinoma	Death	—	—	—	<i>Brit. Med. Jour.</i> , 1903, ii., p. 1458
21	—	Dollinger	—	Do.	Carcinoma	Death	—	—	—	Private letter
22	F., 58	Dollinger	May, 1902	Do.	Carcinoma	Recovery	Dec., 1905: 'In the best of health'	—	3½ years	Private letter
23	F., 43	Herczel	Jan., 1902	Esophagus to jejunum, Murphy's button	Scirrhus carcinoma	Recovery	Oct., 1904: Quite well; works hard; eats all light food. Has gained 26 pounds. Dec., 1905: Believed to be alive and well	—	4 years	<i>Beit. zur Klin. Chir.</i> , Bd. xxxiv, p. 341, and private letter
24	M.	Dollinger	March, 1904	Esophagus to jejunum	Carcinoma	Recovery	Dec., 1905: Quite well	—	1½ years	Private letter
25	F., 29	Ribera	April, 1904	Esophagus to duodenum	Carcinoma	Recovery	Jan., 1906: Quite well	—	1½ years	Private letter
26	F., 53	Dollinger	Oct., 1905	Esophagus to duodenum	—	Recovery	Dec., 1905: Well so far	—	2 months	Private letter
27	F., 44	W. J. Terry (San Francisco)	Oct., 1905	Esophagus to jejunum	Scirrhus carcinoma	Recovery	Jan., 1906: Is gaining weight	—	2 months	Private letter

TABLE IX

SHOWING RESULTS OF TWENTY CASES OF ALMOST TOTAL (SUBTOTAL) GASTRECTOMY FOR  
MALIGNANT DISEASE

No.	Sex and Age.	Operator.	Date of Operation.	Method of Anastomosis.	Nature of Growth.	Immediate Result.	After-result.	Duration of Life after Operation.	Still living since Operation.	Reference.
1	M.	Maydl	1890	Cardia to jejunum	Carcinoma	Recovery	Quite well until death from heart trouble, March, 1901. No evidence of recurrence	—	—	Porges, <i>Wien. Klin. Woch.</i> , Feb., 1892, and private letter
2	F., 58	Langenbuch	June, 1894	Cardia to duodenum	Cancer	Recovery	Quite well 7 months later	—	—	<i>Deutsche Med. Woch.</i> , 1894, p. 968
3	F., 56	Langenbuch	1894	Cardia to duodenum	Cancer	Death	Death 16th day, peritonitis	—	—	Do.
4	M., 58	Schuchardt	Feb., 1895	Cardia to duodenum	Adeno-carcinoma	Recovery	Died pleurisy, Oct., 1897. Some cancer deposits in lungs; no local recurrence	2½ years	—	<i>Archiv. f. Klin. Chir.</i> , Bd. lviii., p. 454
5	F., 41	Ribera	May, 1897	Cardia to duodenum	Adeno-carcinoma	Recovery	Jan., 1906: Quite well	—	6½ years	<i>Revista de Med. y cirugía practicas</i> , 1903, p. 106, and private letter
6	F., 40	Lindner	March, 1897	Cardia to duodenum	Cancer	Recovery	Died of local recurrence	1½ years	—	<i>Berl. Klin. Woch.</i> , 1897, No. 45
7	F., 55	Lindner	Sept., 1897	(?)	Carcinoma	Death	Death 4th day, peritonitis	—	—	Do.
8	F., 29	Schopf	June, 1898	Cardia to duodenum	Lympho-sarcoma	Recovery	Jan., 1906: Patient quite well	—	7½ years	<i>Wien. Klin. Woch.</i> , 1899, p. 671, and private letter
9	F., 41	Faure	Nov., 1898	Cardia to jejunum (posterior)	Adeno-carcinoma	Recovery	In good health 1 year, then cachexia began	1½ years	—	<i>Bulletin Soc. Chir.</i> , t. xxv., No. 17

10	M., 36	Poirier	March, 1899	Cardia to jejunum	Adeno-carcinoma	Recovery	M. Poirier has lost sight of this patient	—	<i>Bulletin Soc. Chir.</i> , t. xxv., No. 12
11	F.	Ricard	April, 1899	Cardia to jejunum; partial resection of pancreas	Carcinoma	Recovery	Quite well to end of 1903, then cachexia, and died in May, 1904	5 years (nearly)	<i>Bulletin Soc. Chir.</i> , t. xxv., No. 23, and private letter
12	F., 46	Carvalho	March, 1900	Cardia to duodenum	Cancer	Recovery	—	—	<i>Lancet</i> , 1900, ii., p. 798
13	F., 38	Boeckel	Oct., 1898	Cardia to duodenum	Adeno-carcinoma	Recovery	Died 7½ months later from intestinal obstruction; no trace of recurrence	7½ months	<i>Bulletin de l'Ac. de Méd.</i> , Jan 8, 1901, and private letter
14	F., 42	Krause	Feb., 1900	Cardia to duodenum	—	Recovery	For 2 years in good health, and could eat anything. Died Oct., 1902	2½ years	<i>Soc. de Méd. Int. de Berlin</i> , March, 1901, and letter from M. Boeckel, <i>loc. cit.</i>
15	M., 38	Mayo Robson	March, 1901	Cardia to duodenum	Cancer	Recovery	Jan., 1905: Quite well	4½ years	—
16	M., 43	Boeckel	May, 1901	Cardia to duodenum	Cancer	Death	Death from gangrene of transverse colon and peritonitis	—	Boeckel, <i>loc. cit.</i>
17	F., 54	Boeckel	July, 1901	Cardia to duodenum	Cancer	Death	Death at conclusion of operation	—	Do.
18	M., 56	Boeckel	Aug., 1901	Cardia to duodenum	Cancer	Death	General peritonitis	—	Do.
19	—	Nolle	—	—	Cancer	Death	—	—	<i>New York Med. Jour.</i> , Sept. 23, 1898
20	F., 26	Delaunoy	May, 1898	Cardia to duodenum	Adeno-carcinoma	Recovery	Died Feb. 11, 1900, from recurrence; had a healthy child in Dec., 1899	1½ years	<i>New York Med. Rec.</i> , Feb. 3, 1900





TABLE X  
SHOWING AFTER-RESULTS OF FIFTY-FIVE CASES OF PARTIAL GASTRECTOMY

No.	Sex and Age.	Operator.	Date of Operation.	Amount of Stomach removed ; Method, etc.	Nature of Growth.	After-result.	Died after Operation.	Years living after Operation.	Reference.
1	F., 32	Lindner	Dec., 1896	3. gastro-enterostomy	Ulcus carcinomatousum	Died of recurrence 5 years later	5 years	—	<i>Berl. Klin. Woch.</i> , 1897, No. 45 : and Boeckel, <i>loc. cit.</i>
2	F., 56	J. A. Adams	July, 1895	Pylorus resected end to end	Adeno-carcinoma	Quite well 1 year ; then hemiplegia, recovered, but died 8 months later. No post-mortem	1 year 8 months	—	<i>Brit. Med. Jour.</i> , 1896, i., p. 966, and private letter
3	M.	Rawdon	Nov., 1889	Pylorus resected, Senn's plates	Adeno-carcinoma	Quite well 3½ years. Died Dec., 1894	5 years	—	<i>Lancet</i> , <i>Chin. Trans.</i> , 1890, p. 494, and private inquiry
4	F., 38	Jesset	Aug., 1891	Pylorus resected ; gastro-jejunostomy	—	Died 2½ years later from influenza. No post-mortem	2½ years	—	<i>Med. Press and Circular</i> , Nov. 18, 1891, p. 517
5	F., 27	Bull	April, 1890	Pylorus resected ; gastro-jejunostomy	Adeno-carcinoma	Quite well 9 months later, then went to Ireland, and was lost sight of	—	—	<i>Med. Rec. New York</i> , 1891, p. 39
6	—	Jessop	Dec., 1891	End to end	Spheroidal-celled carcinoma	Jan., 1905 : Alive and well	—	14 years	<i>Brit. Med. Jour.</i> , 1895, i., p. 189, and letter from Mr. Moynihan
7	—	Jessop	May, 1896	End to end	Cancer	13 months later operation for adhesions. Died 2 days later. No recurrence	13 months	—	<i>Brit. Med. Jour.</i> , 1897, ii., p. 1632
8	M., 57	L. A. Dunn	July, 1896	End to end, Murphy's button	Adeno-carcinoma	Died 2 years later, 3 days after gastro-jejunostomy. Acute kink at site of anastomosis	2 years	—	<i>Lancet</i> , 1897, ii., p. 12

No.	Sex and Age	Operator.	Date of Operation.	Amount of Stomach removed; Method, etc.	Nature of Growth.	After-result.	Died after Operation.	Years living after Operation.	Reference.
9	M.	L. A. Dunn	—	End to end, Murphy's button	Cancer	Lived nearly 2 years	1 year 10 months	—	Private letter
10	F.	A. E. Barker	—	Preliminary gastro-jejunostomy; 5 weeks later, pylorectomy	Carcinoma	Died 1 year later	1 year	—	<i>Brit. Med. Jour.</i> , 1899, i, p. 1265
11	F.	Alexander	—	—	Cancer	Alive and well July, 1905	—	6 years	<i>Brit. Med. Jour.</i> , 1899, i, p. 602
12	M.	C. A. Morton	May, 1899	$\frac{3}{4}$ stomach removed	Sarcoma	Alive and well Aug., 1901, then lost sight of	—	24 years	<i>Brit. Med. Jour.</i> , 1899, ii, p. 1199
13	M., 35	Whitehead Reid	—	—	Scirrhus carcinoma	Dec., 1905: Still alive and well, and at work as farm labourer. Can eat anything	—	6 years	<i>Brit. Med. Jour.</i> , 1900, i, p. 1436
14	F., 51	Hume	—	—	Carcinoma	1 year later nodule removed from liver	—	—	<i>Brit. Med. Jour.</i> , 1900, i, p. 448
15	M.	Christy Wilson	Dec., 1906	Pylorectomy	Adeno-carcinoma	Lived 6 months in comfort, no pain. Severe pain before operation. Recurrence in lungs	6 months	—	<i>Brit. Med. Jour.</i> , 1901, i, p. 1137
16	—	Jesset	July, 1891	Pylorectomy and gastro-jejunostomy	Cancer	Still alive 3 years later	—	—	<i>Clin. Soc. Trans.</i> , XXV, p. 105
17	F., 49	Alexis Thomson	July, 1898	$\frac{1}{2}$ stomach removed	Adeno-carcinoma	Dec., 1905: General health and gastric functions excellent	—	74 years	<i>Brit. Med. Jour.</i> , Jan. 4, 1902
18	M., 43	Gordon	April, 1901	Pylorectomy; Roux's operation	Adeno-carcinoma	Died April, 1904, apparently from obstruction at gastro-jejunostomy opening	3 years	—	<i>Brit. Med. Jour.</i> , Feb. 5, 1902

19	F., 67	Richardson	April, 1897	Pylorectomy end to end	Cancer	Quite well till Sept., then gradually failed, and died Jan., 1898	9 months	—	<i>Boston Med. Jour.</i> , 1898, p. 110
20	F., 40	Rutherford Morison	Oct., 1897	Pylorectomy	Scirrhus carcinoma	Quite well till May, 1900.	3 years 2 months	—	<i>Lancet</i> , 1902, i., p. 86
21	M., 48	Rutherford Morison	Sept., 1898	Pylorectomy	? Spheroidal-celled carcinoma	Died Dec., 1900	2 years 2 months	—	Do.
22	F., 41	Rutherford Morison	Sept., 1898	Pylorectomy	Adeno-carcinoma	Died Nov., 1900	1½ years	—	Do.
23	M., 38	Rutherford Morison	Oct., 1898	Pylorectomy	Colloid carcinoma	Well till May, 1899. Died Dec., 1899	2½ years	—	Do.
24	M., 41	Rutherford Morison	Feb., 1899	Pylorectomy	Scirrhus carcinoma	Quite well until July, 1901, then local recurrence.	6 months	—	Do.
25	F., 41	Ribera	Dec., 1901	Partial gastrectomy	Adeno-carcinoma	Died Sept., 1901	—	3 years	Ribera, <i>loc. cit.</i> , and private letter
26	F., 54	Ribera	May, 1902	Partial gastrectomy	Adeno-carcinoma	Quite well, Nov., 1904	—	3½ years	Do.
27	M., 31	Kammerer	1901	Partial gastrectomy; posterior gastro-jejuno-stomy	Cancer	Jan., 1906: Quite well	18 months	—	<i>Annals of Surgery</i> , Feb., 1901
28	M., 45	Kammerer	1900	Similar operation	Cancer	Died suddenly 18 months later. Cause of death unknown	—	4 years	Do.
29	—	Lynn Thomas	April, 1902	3 stomach: gastro-jejuno-stomy	Cancer	Oct., 1904: Still alive and well	—	2½ years	<i>Lancet</i> , May 30, 1903
30	—	Lynn Thomas	1901	Similar operation	Cancer	Sept., 1904: Still alive and well	3 years	—	<i>Brit. Med. Jour.</i> and private letter
31	M., 62	Mayo Robson	Nov., 1900	Preliminary gastro-enterostomy	Cancer; hour-glass stomach	Died July, 1904. Jaundice. No post-mortem	16 months	—	'Diseases of Stomach,' p. 376



No.	Sex and Age.	Operator.	Date of Operation.	Amount of Stomach removed; Method, etc.	Nature of Growth.	After-result.	Died after Operation.	Years living after Operation.	Reference.
32	F., 44	Scott Riddell	June, 1902	Partial gastrectomy; gastro-enterostomy 7 months previously	Cancer	Quite well for 6 months, then some return of symptoms. Died June, 1903	12 months	—	<i>Brit. Med. Jour.</i> , 1902, ii, p. 101, and letter
33	F., 54	Mayo Robson	Aug., 1900	Partial gastrectomy; cholecystectomy	Carcinoma	Dec., 1905: Quite well	—	5 years	<i>Brit. Med. Jour.</i> , and private letter
34	F., 50	Mayo Robson	Jan., 1901	Partial gastrectomy	Carcinoma; hour-glass stomach	In good health until May, 1905, then wasting; recurrence feared	—	4½ years	Do.
35	M., 36	Ribera	Nov. 1900	¾ stomach removed, end to end	Epithelioma	Died May, 1904. No recurrence	3½ years	—	Ribera, <i>loc. cit.</i>
36	F., 53	Ribera	June 1902	About ¾, end to end	Cancer of pylorus	Jan. 1906: Quite well	—	3½ years	<i>Loc. cit.</i> and private letter
37	F., 36	Ribera	Nov. 1902	About ½, end to end	Sarcoma	Jan., 1906: Quite well	—	3½ years	Do.
38	M., 36	Ribera	Feb., 1903	End to end	(?)	Jan., 1906: Quite well	—	3 years	<i>Loc. cit.</i> and private letter
39	F., 59	Ribera	June, 1903	¾, end to end	—	Jan., 1906: Still quite well	—	2½ years	Do.
40	F., 40	Bowlby	Oct., 1902	Jejunum to stomach	Spheroidal-celled carcinoma	Died Feb., 1905	2½ years	—	St. Bartholomew's Hospital Reports, 1902
41	M., 59	Bruce Clarke	April, 1904	End to end	Columnar-celled carcinoma	Died Oct., 1905. Non-malignant ulcer contracting opening into duodenum. No secondary growth	1½ years	—	Do., 1904

42	F., 54	McCormick (Sydney)	Oct., 1890	Pylorotomy, end to end	Scirrhus carcinoma	Died, recurrence later	7 years	—	<i>Brit. Med. Jour.</i> , 1892, i., p. 533, and private letter <i>New South Wales Med. Jour.</i> , and private letter
43	M., 49	McCormick (Sydney)	Jan., 1900	Pylorotomy; $\frac{1}{3}$ stomach removed	Carcinoma	Alive and well, Jan., 1904	—	4 years	
44	F., 30	McCormick (Sydney)	Aug., 1901	Kocher's method	Carcinoma	Died July, 1903	2 years	—	Do.
45	F., 63	McCormick (Sydney)	Aug., 1902	Resection; anterior gastro-jejunostomy	Carcinoma	Died Oct., 1904	2½ years	—	Do.
46	F., 55	Gordon Syme	May, 1902	Partial gastrectomy	Carcinoma	Died June, 1904	2 years	—	<i>Lancet</i> , 1902, ii., p. 756
47	M., 41	Von Mickulicz	May, 1891	Pylorotomy	Cancer	Well 2¼ years. Died, recurrence in 3 years	3 years	—	<i>Archiv. f. Klin. Chir.</i> , 1896, li., 36
48	F., 42	Von Mickulicz	July, 1891	Pylorotomy	Cancer	Free from recurrence 13 months. Died Oct., 1892	15 months	—	Do.
49	F., 31	Von Mickulicz	June, 1893	Pylorotomy	Cancer	Able to work hard 15 months. Died March, 1895	16 months	—	Do.
50	M., 58	Von Mickulicz	Dec., 1893	Billroth's method	Cancer	Died; recurrence in glands, May, 1894	5½ months	—	Do.
51	F., 44	Von Mickulicz	Dec., 1893	Billroth's method	Cancer	Died 6 months. No sign of recurrence	6 months	—	Do.
52	F., 53	Von Mickulicz	Aug., 1894	Pylorotomy	Do.	Free 1¼ years, then lost sight of	—	—	Do.
53	F., 33	Von Mickulicz	Jan., 1894	Pylorotomy	Do.	Free from recurrence 2 years. Died 2½ years later	2½ years	—	Do.
54	F., 52	Von Mickulicz	Jan., 1894	Pylorotomy	Do.	Died 3 months later	3 months	—	Do.
55	F., 50	Von Mickulicz	Jan., 1894	Pylorotomy	Do.	Died 6 months later	6 months	—	Do.



## SUMMARY OF AUTHOR'S GASTRIC OPERATIONS.

JANUARY, 1901, TO JANUARY 31, 1906.

1. Gastro-jejunostomy for benign pyloric stenosis or gastric ulcer :  
25 cases ; 1 death.
2. Gastro-jejunostomy for malignant disease : 7 cases ; 1 death  
(broncho-pneumonia).
3. Gastrostomy : 3 cases ; 1 death.
4. For hour-glass stomach (gastro-jejunostomy and gastroplasty) :  
2 cases ; no deaths.
5. For acute perforated ulcer :
  - (a) Suture only : 4 cases ; 3 deaths.
  - (b) Suture (when possible) with gastro-jejunostomy : 4 cases ;  
1 death.
6. Partial gastrectomy for carcinoma : 4 cases ; 1 death.
7. Pyloroplasty : 1 case ; recovery, but relapse.

NOTES OF FOUR CASES OF ACUTE PERFORATED ULCER  
TREATED BY SUTURE (WHEN POSSIBLE), AND  
GASTRO-JEJUNOSTOMY; WITHOUT FLUSHING OR  
SPONGING THE PERITONEAL CAVITY.

CASE I.—A young woman, aged twenty, was seized at 7 p.m. (one hour after a full supper) with severe abdominal pain and collapse. She was admitted into the London Temperance Hospital at 1.30 p.m. on the next day, under Dr. Soltau Fenwick, who diagnosed a perforated ulcer, and asked me to see her. At 3 p.m. the abdomen was opened. Free gas and abundant fluid, like gastric contents, in peritoneal cavity. After prolonged search, a small perforated ulcer was discovered on posterior wall of duodenum at the end of its first portion, in a position impossible to suture. Anterior gastro-jejunostomy performed. Drainage through upper angle of wound, and also to Douglas's pouch by incision above pubes. No flushing or sponging. At 10 p.m. calomel (gr. iii.) was given, and repeated next day. Bowels well opened after enema next day, and thereafter recovery uneventful.

CASE II.—A domestic servant, aged thirty-two, was seized with sudden, severe abdominal pain and vomiting at 7 p.m., shortly after a supper of sausages and potatoes. Nineteen hours later the abdomen was opened. Much purulent fluid in peritoneal cavity, and remains of supper. Indurated perforated ulcer near cardiac orifice, which could be closed only imperfectly. Anterior gastro-jejunostomy performed. Drainage, but no flushing or sponging. Patient died nineteen hours later. Fluid from peritoneal cavity at time of operation showed

cultures of pure streptococci. This patient was in hospital under care of Dr. Porter Parkinson.

CASE III.—A man, aged twenty-six, an in-patient under the care of Dr. Soltau Fenwick, was suddenly seized while asleep with severe abdominal pain. Three and a half hours later I opened the abdomen, and found a ragged perforated ulcer on lesser curvature at extreme end of the stomach, which could not be completely closed. Anterior gastro-jejunostomy was performed. As soon as anastomosis was effected, leakage from imperfectly closed ulcer ceased. Much turbid fluid in abdomen, but no flushing or sponging. Two gauze drains. Calomel given same morning. Recovery delayed by subphrenic abscess, which burst into right lung. After resection of portions of two ribs patient made a good recovery, and has since remained in perfect health. Possibly the subphrenic abscess might have been prevented by sponging out the subphrenic space and putting gauze drains therein.

CASE IV.—M. T., aged twenty-nine, suddenly seized with severe abdominal pain at 10 a.m. Ten hours later abdomen opened. Peritoneal cavity filled with turbid fluid, and perforation found on lesser curvature. Perforation sutured, and anterior gastro-jejunostomy performed. Gauze drainage through operation wound, and also to pelvis. Calomel in small doses commenced as soon as patient recovered from anæsthetic. Bowels well opened next day, and recovery uneventful.



